

Acc. 12-053

Killip Field Notes, # 33000-35696

1939

Columbia Cacti /
Wundermann

Monats. Deutsch.

Kakt.-Gesell.

~~fr 3~~ Jan. 1932

fr 3 sq.

2 plants received from
Mun. Org. 4/9, both collected
from forest
near Guernsey

Brom = ? dryanderac
Kam

Orch = "Guereux" with
same dope as 34911
Cavendishii Guereux

Bromel, collected at
San Antonio
34912



Standard Blank Book

No. 67½

Journals Double \$ and Cts. no Units
Cash Books " " " "
Day Books " " " "
S. E. Ledgers " " " "
D. E. Ledgers Full Page Form "
Long Day Books "
Records with Margin Line "

In 150, 200, 300 and 500 Pages

Made in U. S. A.

Planty Notes

bcm (3) = 6

19. 33210 (lt.) bcm = 2 145. 35459
33211 (rt) m4 = 2 148. 35502
20. 33100 - bcm (4) = 6 128. \downarrow bcm (1) = 5
24. 33337 - ~~cm~~ (10) = 13
26. 33350 - (6) cm bcm = 3
41. 33610 - 1
54. 33711 - bcm (3) = 5
56. 33856 - bcf = 3
62. 33942 - bcm (1) = 7
63. 33943 - bcm (1) = 4
64. 33944 - bcm (1) = 3
69. 33948
81. 34153 - (6) g = 2
82. 34099 - bcm (2) = 6
85. 34349 - bcm (1) = 4
88. 34507
89. 33628 (2)
96. 34540 bcm = 2
97. 34540 bcm = 2
98. 34540 bcm = 2
103. 34540 bcm = 2
107. 34704 bcm (2) = 5

Mat.
p 4
made
Oct. 39



**Standard
Blank
Books**

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Negative - Col. 39

20

117.

56.

88

89

41

69

63

24

19

64

26

54

145

96

97

52

81

148 (replaces 45)

- ✓ 33001 *Lycopodium*
Stiff, bushy. L., up to 2'
- ✓ 33002
Alga; on roots & stems of mangrove
- ✓ 33003
"
- ✓ 33004 *Vittoria Ptolomea*:
Epip.
- ✓ 33005 *Dimorphandra*
Shrub under. Stems up to 12' high; arising from joint of large "cladodes" (see later coll.)
- ✓ 33006 *Laguncularia*
S. long br.; fl. pale-w
- ✓ 33007 *Pavonia*
S ± 3 ft; pet. 4-pi
- ✓ 33008 *Piper*
S 3-4 ft; "
- ✓ 33009 *Aporosa*? *biguon*
Nubac. vine.
- ✓ 33010 *Rhabdod.*
Suff. vine; cor pale pi to white. Lvs 2-4 form
- ✓ 33011 *Maep.*
V; pet. 4
- ✓ 33012 *Grescentia*
T 3-10-15' (fr)
- ✓ 33013 *Oech.*
Ep.; old sep. light pi
- ✓ 33014 *Oech.*
Ep.
- ✓ 33015 *Oech.*
Ande light pi & green to + a few perfect sp. to near base
+ a few perfect sp. to near base
See later
- ✓ 33016 *Oech.*
no young
brown
See later
- ✓ 33017 *Benthamanthia*?
Coarse herb, densely viscous throughout; up to 4 ft high, with
suffrutescent central stem & no branches; pet. yellow pink,
staminal line with deeper pi.

- Buenaventura Bay, Agua Dulce (no mangroves) 4 2/3/39
- mangrove swamp
neth. of R. Dagala ~
- ~
- 6
- ~
- Puntarenas, mangroves. 6
- coastal thickets
Behind mangrove swamp 5
- 8
- swamp marsh
- coastal thickets
- woods
- marsh

✓ 33018 *Brom.*

Ep. lvs in large whorls, up to 25" l.

✓ 33019 *Brom*

" " " " " " 3' l.

✓ 33020 *Phyllanthus*

Slender annual

✓ 33021

"

Perhaps winter here

✓ 33022 *Hyptis*

H., with elong. br.; cor. whitish

✓ 33023 *Bacopa*

H., prostr. stems; cor. wh.

✓ 33024 *Crotalaria*

Sh. y

✓ 33025 *Stachytarpheta*

Sh. 3-4'; cor. tube wh, limb rich blue to pinkish bl.

33026 *Passiflora quadrangulata*

Seeds from fruit cocktail at hotel

33027

" *legumin*✓ 33028 *Tradescantia*

Per. w

✓ 33029 *Paspalum*

Good pasturage for horses

✓ 33030 *Hyptis*

Large herb; cor. w

✓ 33031 *Paspalum*✓ 33032 *Ruell. cornubona*✓ 33033 *Mim. pigra*?

St. 6-10' l; 3-4', div. br.

✓ 33034 *Paspalum*

"Chiripaya"

Buenaventura: Puntarenas Pa. ^{behind} mangr. sw.
Cuartel Michels

2/3/39

: waste places about city

2/4/39

Said to have come from

Cali

Grows in Pifutina

mainly ground
waste places

2/5/39

"Siempre viva"

"Dormidera"

- ✓ 33035 *Quassia*
Herb, 1-3 ft; pet y
- ✓ 33036 *Desmodium*
Fls. pink; proc. l., dr. suber. "Pegapaga"
- ✓ 33037 *Cyperus*
- ✓ 33038 *Chidemia*
5 ± 2'; pet. wh. "Mora"
- ✓ 33039 *Melast.*
Herb, on branch above; pet. pale pi; anther deep pi
- ✓ 33040 *Melast.*
Pet. ripe
- ✓ 33041 *Ipomoea*
Cor. deep pi in out portion; light pi in out dist.
- ✓ 33042 *Xyris*
Pet. y
- ✓ 33043 *Scroph.*
Particulate herb; cor. viol. out, whitish in, lobes viol - margined
- ✓ 33044 *Hydrocotyle*
Repetent herb; fls. greenish wh.
- ✓ 33045 *Eleocharis*
- ✓ 33046 *Ficoides*
- ✓ 33047 *Cyperus*
Pet. p.
- ✓ 33048 *Asclepias*
Stem l.; pet. light y
- ✓ 33049 *Urviola*
Stoloniferous herb.
- ✓ 33050 *Spilanthes*
Stem slightly succul.; rays bright y; petals anal y
- ✓ 33051 *Piper*
2-3 m

Buenaventura; marsh

2/5-

waste places

Tidal swamp.

Swamp.

~~Marsh~~ Wet soil

Waste places

Gorgonilla Is. sandy beach

2/8

- ✓ 33052 *Chamaecrista*
 Tree 5m, trunk 5-7cm, diam.; pet. light y
- ✓ 33053 *Peperomia*
 Repent on tree trunk, & dependent
- 33054 *Epiphyllum nocturnum*?
 Epip. 5 pet. gr.; lfp. wh.; cal. brownish
- 33055
 Moss on roots of 33054
- ✓ 33056 *Ficus*
 Tree 6-7m.
- ✓ 33057 *Oleandra*
 Cavities of rocky cliffs
- ✓ 33058 *Kylinia*
 " " Caeosp. h
- 33059 *Gesneria tomentosa*
 Old infl.
- ✓ 33060 *Arae.*
 Repent, zigzag stems
- ✓ 33061 *Chradium*
 Shrub 2m. Densely w; styles purp.
- ✓ 33062 *Bignonia*
 High-climbing vine on trees
- ✓ 33063 *Simarub.*
 Shrub to ± 3m, fr.; br. spread.
- 33064 *Polypodium*
 Ep.
- ✓ 33065 *Rub.*
- ✓ 33066 *Agavea trichostema trichostema* (Chapm) Trigon
 Candel 2m; fr. to 3m.
- ✓ 33067 *Acalypha*
 Shrub to 4m.
- ✓ 33068 *Rub.*
 Tr., wide br., slender trunk; young fr. br.

~~Bona~~ Gorgonilla Is.; woods along coast

2/8/29

: rocky cliffs

Woods along coast

sandy
dense forest; 130m.

- ✓ 33069 *Eutrichia*
Tr. 4-5 m; cor. wh.; also at sea-level
- ✓ 33070 *Arac.*
Climbing trunk
- ✓ 33071 *Peperomia*
Deep. from trees
- ✓ 33072 *Cestus*
A. trunk, $\pm 1.7-2$ m. h.; fr. n., per. y
- ✓ 33073 *Polypodium*
Climbing on TT
- ✓ 33074 *Arac.*
Climbing on T
- ✓ 33075 *Fern*
Fr. 1.5-2 m h. when dec.
- ✓ 33076 *Moss*
On decaying log
- ✓ 33077 *Solanum*
S ± 2 m; cor. w, anth. y
- ✓ 33078 *Myrsine?*
T. 4-5 m; fl. pi
- ✓ 33079 *Peperomia*
Deep. from tr.
- ✓ 33080 *Moss*
On dec. log.
- ✓ 33081 *Paramea*
Sh. 3-3.5 m
- ✓ 33082 *Erythraea?*
h. 3-4 m.
- ✓ 33083 *Pothos*
H. up to 1 m
- ✓ 33084 *Sciadophyllum*
S ± 2 m; lvs & infl. at top
- ✓ 33085 *Anthurium*
Tr. h.

Gorgonilla Is.; dense sandy forest, 130-200 m. 2/8

- ✓ 33086 *Clidemia*
Sh. ± 1 m, with erect stems; anth. o. fil. pi
- ✓ 33087 *Pub.*
S 1.7-2 m; cor. r. ph pi, fr. purish
- ✓ 33088 *Piper*
Sh. ± 2 m
- ✓ 33089 *Piperanum*
Rep. from tr. br.
- ✓ 33090 *Anthurium*
On tr; lvs very shiny
- ✓ 33091 *Polygodium*
On trees
- ✓ 33092 *Melast.*
Sh. ± 2 m; stem str.; fr. bright blue
- ✓ 33093 *Miconia laccu*
S 1-1.5 m; pet. r. st. pi
- ✓ 33094 *Clusia*
Much h. sh on tree
- ✓ 33095 *Piper*
S ± 1.5 m.
- 33096 *Cassia*
Tr. 6-7 m, spr. crown; pods up to 40 cm (get!) un
- ✓ 33097 *Hesperia*
Tr. pet. or - y, at length or
- ✓ 33098 ~~*Hesperia*~~ *Blasia*
fr. purplish-black
S $\pm 1.5-2 \frac{1}{2}$ m; pet. waxy wh, fil. yel gr; anth y, deep gr. dist
- ✓ 33099 *Lectaria*
- ✓ 33100 *Marila*
Tr. ph. 20 pet. bright y. at top of ascending br
most comp. like against
at top of ascending br
 \pm vase-shaped; lvs or infl.
- ✓ 33101 *Adiantum*
- ✓ 33102 *Hypolytrum*

Gorgonilla Is.; dense sandy forest 130-200 m.

2/8

Gorgona Is. ^{see vol}; thickets near coast

2/9

woods " "

beach

Coastal thickets

→ predominant pl. of SE corner

bank of
in forest along small stream
dense forest

in forest ^{sand} along small stream

- ✓33103 *Dichosoma*
Very hairy
- ✓33104 *Ischnosiphon*
Per. wh.
- ✓33105 *Spigelia*
Ds. wh. H
- ✓33106 *Polypodium duale*
On tree trunk
- ✓33107 Rub.
Er. herb. 1 m high; fr. r
- ✓33108 *Piper*
S ± 1 m
- 33109 *Vanilla*
V
- ✓33110 *Arac.*
- ✓33111 *Piper*
Shrub ± 2.5 m.
- ✓33112 *Blechna*
S. 90 cm; fl. wh; fr. purpl., sweet, pulp pinky
- ✓33113 *Casearia*
~~Shrub~~ Sm. tr., 5 m, mod. br.; fls. greenish wh.
- ✓33114 *Palicourea*
Small tree, 4 m.; br. infl. reddish; cor. y
- ✓33115 *Piper*
Sm. tree
- ✓33116 *Arac.*
Long vine
- ✓33117 *Piper*
Sh 3 m, small tr
- ✓33118 *Psychotria*
Tr. ± 5 m; cor. wh.
- ✓33119 *Piper giganteum*
T, 4 m, elong. br.

m - 15

Gorgoua 7a. bank of small stream ^{+ seasonal} in forest

2/9

dense for.

Gorgoula 72: dense sandy forest, 130-200 m.

2/8

E

- ✓ 33120 Piper
Sh. ± 1.5 m.
- ✓ 33121 Rungia
Tr. 11 m, trunk 8 m. diam.
See Separate Fruit Collection
- ✓ 33122 Cissampelos
Fr. tr., 3 m, ^{branches} ~~trunk~~ spreading
- ✓ 33123 Lycopodium
- ✓ 33124 Sarawagea
Herb; fl. pink w
- ✓ 33125 Melast.
H. fl. wh.
- ✓ 33126 Terminalia catappa
Tr. 8 m. (crust.)
- ✓ 33127 Psychotria
Tr. 4 m or more; cor. wh.
- ✓ 33128 Rub.
- ✓ 33129 Comp.
S. 2 m.
- ✓ 33130 Peperomia
Tr. ^{erect} on cliffs
- ✓ 33131 Aeschynomene
"
- ✓ 33132 Ichnanthus
on shaded cliffs
- ✓ 33133 Melast.
H. to 75 cm; pet. pi; st. w
- ✓ 33134 Disoloma
Herb; pet. pi
- ✓ 33135 Bryopteris
- ✓ 33136 Ichnanthus

Additional Material in
General Herbarium

u
units for the
"Almendro"

"Malbrilla arisca"

Gorgona 72: woods near coast

2/9

coastal thickets

u

woods near coast

2
10

Gorgonilla: on cliffs along shore

2/10

Gorgona 72. (east side) coastal thickets

2/11

- ✓33137 *Scleria*
- ✓33138 *Peperomia*
~~cl.~~ Cl. trees & def.
- ✓33139 *Nelost.*
S. fls. fr.
- ✓33140 *Neopolytrichum*
- ✓33141 *Fungus*
on small logs; wh.
- ✓33142 *Nelost.*
H.
- ✓33143 *Arac.*
Ter., Cl. st.
- ✓33144 *Hep.*
On tree
- ✓33145 *Moss*
do
- ✓33146 *Piper*
- ✓33147 *Rub.*
Tr. fls. wh.; br. in fruit purple & black; fr. gr.
- ✓33148 *Rub.*
Rounded infl. Sm. tree
- ✓33149 *bielen.*
V; fls. white
- ✓33150 *Hyptis*
- ✓33151 *Selag.*
Ter.
- ✓33152 *Rub. myrsinites*
Cor. ~~fr.~~ fls. 5 ± 1 m
- ✓33153 *Euph.*
S 2.5-3 m; very much; fls. gr.

Gorgona Is.: ~~Coastal~~ ^{Mar.} ~~land~~

dense forest along stream

- ✓ 33154 *Mandevilla*
✓ 33155 *Spermatoc*
H.; fls. w.
✓ 33156 *Selag.*
Vine
✓ 33157 *Adiantum*
✓ 33158 *Piper*
8-1.5 m.
✓ 33159 *Coccythium*
H.; ^{1m}stems, red,
✓ 33160 *Geonoma*
Tr. 80 cm. high
✓ 33161 *Rhipidoptera*
On dec. tr.
✓ 33162 *Achi.*
Ep.; pet. deep pi; lvs. obov. yg
✓ 33163 *Polyposium*
Ep
✓ 33164 *Selag.*
Ter. stem up.
✓ 33165 *Sectaria?*
Sterile
✓ 33166 *Moraceae*
T. ± 4m; buds y w
✓ 33167 *Cyper.*
✓ 33168 *Piper*
80 cm; sterile
✓ 33169 *Sol.*
Slender sh. ± 2m; cor. wh. cent. gibb
✓ 33170 *Bauhinia maritima* sp. nov.
S ^{erect} sh. ± 2m; pet. wh.

Gorgona Is. (last visit 1/2 m from shore)

- ✓ 33171 Melast.
S; pet. pi.
- ✓ 33172 Helechos.
- ✓ 33173 *Henrieta* *Cycloclium triana* var. *chocense* A. K. Smith
Caul. ± 80 cm; fr. 1.6 cm, ~~or~~
- ✓ 33174 *Epidendrum*
Ep. 5 pet. gr. lip & cal. wh. U
- ✓ 33175 Moss
On dec. tr.
- ✓ 33176 Rub.
Br. wh. slender sh
- ✓ 33177 *Carludovicia* ~~U~~
- ✓ 33178 Rub.
- ✓ 33179 Pl. wh. J \pm 5 m. up ~~tree. 2536~~
Leaves.
- ✓ 33180 Arac.
H. on muddy bank; cor. bright y U = G
- ✓ 33181 *Spathoglottis* wh; shad. fruit red
Pleurothallis H = G
- ✓ 33182 Ep.
Islandia
- ✓ 33183 Ep.
Elaph. U = K
- ✓ 33184 *Lindaea*
Ter.
- ✓ 33185 Arac.
Ep.
- ✓ 33186 Melast.
Smt. ± 3 m U = K
- ✓ 33187 Bromel.

Gorgona 72 (last side). Decid. along stream

- ✓ 33188 Moss
Clumps out. to
- ✓ 33189 Selag.
On bank
- ✓ 33190 Hymenop.
On wet tt.
- ✓ 33191 Hymenop.
- ✓ 33192 Cyperac.
- ✓ 33193 Rub.
Bl. deep pink; tr. 10 m.
- ✓ 33194 Moss
On Pter.
- ✓ 33195 Trichomanes
Ep.
- ✓ 33196 Polypodiaceae
Ep.
- ✓ 33197 Hepatophyllaceae
Ep.
- ✓ 33198 Asplenium *Thelypteris lepicurii* (Hook.) Tryon var. I. det A.S. Smith 1976
- ✓ 33199 Polypodiaceae
- ✓ 33200 ?
- ✓ 33201 *Casearia* *Stenile*; characteristic; low at top of straight trunk to ± 3 m.
- ✓ 33202 *Faramea*
Sun tr; fl. greenish w
- ✓ 33203 *Conterea*
Sun. tr. 5-6 m. fr. wine-red.; cr. light gr.
- ✓ 33204 *Gesner.*
W.V., cr. wh.
- WV; cr. rich pi

Argusia 72. : along stream in dense for.

: edge of forest at coast

- ✓ 33205 *Myrt.*? *Myrt.*
Tree 10 m. or more; fr. red
- ✓ 33206 *Rumpchia*
Tr; fls. greenish wh.
- ✓ 33207 *Bignon.*
WV; fls. bright y
- ✓ 33208 *Melast.*
T pet. rich pi.; st. deep purpl
- ✓ 33209 *Rub.*
T ~~Cor tube~~ Cor tube yg, lobes rich pi
- ✓ 33210 *Clusia*
T ± 3 m.; fls. w.
- ✓ 33211 ? *add fruit to herb. list* 19 Pl. (Tae left)
- T ± 3 m.; fr. dull red. 19 " " " " " "
- ✓ 33212 *Melast.*
T. pet. deep pi
- ✓ 33213 *Melast.* Fern
Tr. pet. rich pi. Tr.
- ✓ 33214 *Pera*
S 3-4 m.; fr. greenish w
- ✓ 33215 ? *un.-10*
Small tree
- ✓ 33216 *Dicranopteris bifida*
Overhanging cliffs
- ✓ 33217 *Maregravia*
V, seeds red.
- ✓ 33218 *Dicranopteris fectinata*
Overhanging cliffs; no fertile seen
- ✓ 33219 *Rub.*
Fl. T. buds greenish wh
- ✓ 33220 *Bumel.*
Tr. per. pale pi.
- ✓ 33221 *Ceropia*
Tr. ± 12 m.

Gorgona Is. : edge of forest at coast

- 33222 *Hedyosmum*
1 ± 3 m; ripe fr. black, lustrous
- 33223 *Melast.*
V; pet. y.
- 33224 *Polyphallus*
climbing tr.
- 33225 *Rub.*
2-2.5 m.
Sm. tr; slender straight tr; br. wh.
- 33226 *Arac.* ~~sp.~~
Dr. scarlet
- 33227 *Rub.* Send spec to F
br. reddish pi.
- 33228 *Orch.*
Ep. pet. pi.; dotted & blotched with purp.
- 33229 *Asclepiadaceae*
Herb; pet. y, stam. pair out, pi. striped in
- 33230 *Chamaecrista*
H.; fls. y
- 33231 *Peperomia*
Perennial in soil or open.
- 33232 *Gen.*
Black light gr.; cor. bright y.
- 33233 *Utricularia*
Cor. y
- 33234 *Scleria*
- 33235 "
- 33236 *Piper*
T ± 4 m
- 33237 *Pisonanthus*
Cor. gr.
- 33238 *Melast.*
Ter.; lvs. red; br. pi; per. w

Gorgona Is.; edge of for. at coast.
thickets along coast
edge of for. at "
along stream in dense for.

Buenaventura: waste places

2/13

(R.R.)
Km. 18 (Pumping Station), e. of Buenaventura: (2 Km. W. of P.O. de la)

2/14

Open hillside

Bog
swamp.

dense forest

swamp.

dense forest

1244a Jesu.

✓ 33239 Rub.
fr. quite ^{lobes bright blue} ~~dark~~ ^{shrub}✓ 33240 Calathea
Per. wh.; fl. \pm 1.5 m.✓ 33241 ~~Calathea~~ Trichopetalum nigripes var. brunneum Bonap.
Per. w. fl. \pm 1 m✓ 33242 Piper
Ter✓ 33243 Bromel.
Ep.✓ 33244 Gesu. "Vibora" ~~"Vibora"~~✓ 33245 Gesu. Cr. tube gaily dist. ² fr. mag; lvs. solid deep r. base or green or red var.
!✓ 33246 ~~Epiphyllum~~ Cyclobium trianae var. chocolate A. K. Smith
(slight fr.)

✓ 33247 Ficus

✓ 33248 Moss on
On leaves✓ 33249 Anthurium
On tree

✓ 33250 Arae.

Ter.

✓ 33251 Gesu.
Ter.; ~~no fl.~~ Cor. wh.✓ 33252 Trichomanes pinnata
Ter.✓ 33253 Trich.
Ref. or tt.

✓ 33254 Pelea

Ter.

✓ 33255 Palm

50 cm. diam. ⁱⁿ long.
Trunk \pm 10 m; fr. \pm 10 cm.
Infl. with short, stem \pm 20 cm diam; petiole; Total width \pm 60 cm.

Km 18

dense forest

414

- ✓ 33256 Cyperaceae
 ✓ 33257 Melast
 1 f (st. □) pet. pinkish white
 ✓ 33258 Rub.
 Buds y-g. Fr. T.
 ✓ 33259 Marcellia
 Herb V.
 33260 Rub
 Sm T. br. white; buds q. white, lobes w (slender br) 1
 ✓ 33261 Rub.
 Fr. ~~br.~~ purple
 ✓ 33262 Hypoxis
 33263 Costus Calceola
 Per. white, pi. striated
 ✓ 33264 Peperomia
 Ref. on TT
 ✓ 33265 Melast.
 S ± 2 m, pet. o st. pi. (lvs retic)
 ✓ 33266 Melast Jucoca
 Fr pi.
 ✓ 33267 Piper
 Inf. h. ± 2.6 m.
 ✓ 33268 Coccocypselum
 E. S ± 20 cm.
 ✓ 33269 Gesner
 Des. for 204 red blotches on lvs
 ✓ 33270 Aroc.
 ✓ 33271 Coccocypselum
 Fr. S; br. scarlet
 ✓ 33272 Jidema
 H.; pet. w

Km 18

dense for.

2/14

"Guaco", "Vibora"

U-H.S.

- 33273 Rub.
 H.; lvs purplish & ben
 33274 Melast
 33275 Bauhinia
 WV
 33276 Rub.
 T. fr. wh.
 33277 Melast.
 H.
 33278 Boronil.
 Dr. bright r.
 33279 ? Clusia
 Jr.
 33280 Burmann?
 Epiphyt.; fls. white prox; bluish pi. dist.
 33281 Melast.
 fls. deep pi
 33282 Geener.
 Cr. y.
 33283 Melast.
 33284 Cyclanthus
 fls; fls. 1.5 m
 33285 Moss
 on leaf of 284
 33286 Chamaefistula
 33287 Chamaedorea
 33288 Melast
 33289 "
 H

18
 2/14
 dense for.

- ✓ 33290 Comp.
 ✓ 33291 Euph.
 ✓ 33292 Piper
 $S \pm 2.5m$
 ✓ 33293 Anthurium
 Jr; spathe ~~green~~ wh.; spad. ~~green~~ at length deep
 (alt this day ~~green~~)
 ✓ 33294 Piper
 $H \pm 3m$
 ✓ 33295 Oxygramma
 $\pm 60cm$ high
 ✓ 33296 Cyperus
 Heads pale
 ✓ 33297 Hyptis
 lt. fls. purp.
 ✓ 33298 Tournefortia
 ✓ 33299 Melast.
 H; pet. pale pi
 ✓ 33300 Melast.
 $H \pm 35cm$
 ✓ 33301 Comp.
 $H \pm 1m$; fls. y
 ✓ 33302 Rub.
 V; fr. red
 ✓ 33303 Sol.
 St. y; stem spiny $H \pm 1m$
 ✓ 33304 Grass
 ✓ 33305 Rub.
 H, ~~1.2~~ 1.2 fm.; br. ~~red~~ cor. wh
 ✓ 33306 Anthurium
 on T

Km 18

along r.r.

along for

ph. D-6 *Cordia alliodora*

Rio Dagua, at end of highway, Buenaventura dense for. 2/15-

along stream

un-5

un-5

- ✓ 33307 *Carlundorica*
Infl. or. un 9 Buaramunt: Kib Dagua, at end of highway; ^{forest} along str. 2/10
- ✓ 33308 *Bromel.* un 1
- ✓ 33309 *Melast. selosa*
Ep.; br.; fls. y; lvs. horizontally streaked
- ✓ 33310 *Heinzelia*
Sh. 1.5 m.; fr. or.; infl. pinkish
- ✓ 33311 *Rub.*
tr. 15 cm. diam.
T, 8 m.; fr. purplish br; clusters
- ✓ 33312 *Rub.?*
- ✓ 33313 *Glom.*
T ± 10 m.
- ✓ 33314 *Rub.*
H 2 m., st. simple; fls. r.
- ✓ 33315 *Artium*
J. fr. gray un 1
- ✓ 33316 *Rub.*
Ep. un 5
- ✓ 33317 *Manettia*
H. ± 80 cm.
- ✓ 33318 *Manettia*
HV; cor. green!
- ✓ 33319 *Salvia*
H ± 80 cm.; stems in clusters; infl. distichous; fls. or. w. pi.
- ✓ 33320 *Dryopteris* *Cyclodius* *tricus* var. *chocense* A.C. Smith
H. up. lip light blue, lower deep blue
- ✓ 33321 *Melast.*
- ✓ 33322 *Melast.?*
S, 70 cm. fls. rich pi. un 5
- ✓ 33323 *Artium*
H., Fls. pi. un 9
- Ep. spikes purple

along R. Dagua

- ✓ 33324 Melast.
H 1m; Fr. red
- ✓ 33325 Polypodium lance.
Rip. m-tr.
- ✓ 33326 Brom.
Ep.; br. bright red; per. y
- ✓ 33327 Brom.
Ep.
- ✓ 33328 Coeloc.
Br. r.; ± 2m
- ✓ 33329 Vacc.??
T. calyx o ped. r; fls. y
- ✓ 33330 ~~Silene~~ Guania
K. V.
- ✓ 33331 Gesner.
Br. r; cor. y. Epiph.
- 33332 Guania
H stem prostrate
W; calyx r; cor. y
- 33333 Anthurium
Ep.
- ✓ 33334 Anthurium
- ✓ 33335 Melast.
H. ± 30cm; pet. o st. w
- ✓ 33336 Heliconia
Pl. 2.5m. br. red, y at base
- ✓ 33337 Calce. (Phytolophos?)
Stipe 50cm, rest of leaf. 3m or more; infl. wh., base above ^{sub} ~~of~~ ^{of} ~~areoles~~
- ✓ 33338 Rub.
Sun T, edge of per; tube light gr, lobes purplish br.
- ✓ 33339 Orch.
Ep. fr. only
- 33340 Tachysiphon
H ± 1.7m.; per. y; pet. 60-80cm. l.

Buenaventura, Rio Sagua, ^{along river} ~~at end of highway~~; ~~fr.~~

2/15

Buenaventura ^{Agua dulce} ~~with~~ ^{with} shore of bay; demo fr.

2/16

- ✓ 33341 Moss
On lvs. of Rub.
- ✓ 33342 *Antennaria cordif.*
Spathes gr., spathe red (ter.)
- ✓ 33343 Rub.
H.; fr. light gr.
- ✓ 33344 *Danaea*
Ter.
- ✓ 33345 Melast.
- ✓ 33346 Selag.
Sh ± 2 m; fr. light gr., st. w.
- ✓ 33347 Fern
- ✓ 33348 Piper
S 2-2.5 m.
- ✓ 33349 Commel? *Cyrt.*
Ter.
- ✓ 33350 Palm
Ph. 26
Slender tr. 10-15 m; prob. tree overtopping fr. in Ph. Sterile
- ✓ 33351 Palm *Oenocarpus?* Fr. 2.5 m
Smooth tr, ± 5 m h, 12 cm diam. Sterile; sometimes with slight
- ✓ 33352 Liliif.
T ± 2 m; fls. light y
- ✓ 33353 Rub.
T ± 4 m; calyx deep purp (fr age), green (y); cor - w
- ✓ 33354 *Tococa*
S ± 80 cm
un-S
- ✓ 33355 Cucurb.
H V; cor. light green out, white in.
- ✓ 33356 *Antennaria*
un-S
- 33357 *Killipilleria*
On bank cut back from R. Dagua for m. Extends
for ± 50 ft.

Buenaventura: Agua Dulce; dense for.

2/16

50 m
Córdoba: bank of R. Dagua, close to m.
(Top of P. 13, 14)

2/17

✓ 33358 *Marchantia*

33359 *Rhynchospora*

✓ 33360 *Piper*

H.

✓ 33361 *Paspalum*

✓ 33362 *Oryopteris*

✓ 33363 *Eleocharis*

33364 "

✓ 33365 *Selagin*

33366 *Polygala*

fl. pinkish blue

✓ 33367 *Gram*

✓ 33368 *Hydrocotyle*

Rep. H.; fls. greenish-wh.

✓ 33369 *Renealmia*

Ter. H.; st ± 1m up to lowest leaf; lvs distichous

✓ 33370 *Mandevilla*

H V; cor. pale y

33371 *Calathea*

Per. y

✓ 33372 *Sabicea*

S 1.5-2m; fl. blue

✓ 33373 *Peperomia*

Sp. H

✓ 33374 *Jococa*

low S; fl. rich pi

Cordoba: wet bank of U. Dagua, along r.r.

2/17

u

u

ditch

wet bank

Ditch

Wet bank

dense forest

clearing

denser forest

- ✓ 33375 ~~Crat.~~ Sobralia? low. apex; col. wh.
Ter. Sep. light gr.; 2 pet. ~~lvs~~ pink; lip whitish, psi-stippled
- ✓ 33376 Nephrolepis
H ± 60-70 cm; pet. pinkish wh
- ✓ 33377 Dryopteris
- ✓ 33378 Melast
H, ± suff. pet, stam style pi
- ✓ 33379 Eriotheca quadrangulata
S 1-1.5 m; cor. light pi.
- ✓ 33380 Heliconia
Br. bright red; per. deep y; infl. pendul
- 33381 Gesner.
Cor. light pi.
- 33382 ~~Bom.~~ Rub.
Sp. br. (379a) Erect h, ± 50 cm high
- ✓ 33383 Tococa
S ± 2 m WV, ± 6 m.
- ✓ 33384 Peperomia albifolia
Gr dec. long
- ✓ 33385 Coccoloba
HV portulac; fr. bright blue
- ✓ 33386 Miconia
HV; fls. wh.
- ✓ 33387 Rub.
S cor. wh
- ✓ 33388 Palicourea
T 4-4.5 m; bracteoles infl. red; cor. y
- ✓ 33389 Melast.
Slender Sh.; fr. pi
- ✓ 33390 Trelorea
Ter. h.;
- ✓ 33391 Peperomia
H, st. repent at base

Cratogeomys : clearing

dense for.

clearing
dense for.

clearing

dense for.

- ✓ 33392 Melast.
 S. sm. t. 2 ± 3 m.; pet. pale pi; fr. deep pi
- ✓ 33393 Peperomia divaricata
 Ter.
- ✓ 33394 Nicotiana
 Slender t.; fls. wh.
- ✓ 33395 Manihot
 Tall, branched h. fls. y-g
- ✓ 33396 Cissus
 HV; pet. red!
- ✓ 33397 Anac.
 T. br. wh or greenish w. spaces purplish br
- ✓ 33398 Rhyssoloma
 H. v.; fls. y
- ✓ 33399 Vanilla
 HV; tubs y g; pet. w
- ✓ 33400 Ruellia
 $4 \pm 60-70$ cm.; cor. pi
- ✓ 33401 Melast.
 H, elong. br.; cor. pet. magenta
- ✓ 33402 Gesneria
 V on tree; cor. pale pi
- ✓ 33403 Kibakina
 H. v.; infl. greenish w
- ✓ 33404 Ficus
 H
- ✓ 33405 Tradescantia
 Suc. H.; per. wh.
- ✓ 33406 Moss
 On Anthurium
- 33407 Orch.
 Ep.; per. seg. red
- ✓ 33408 Rub.
 Sm. tr $2-2.5$ m; infl. pendulous

50+ 100 m.
 Cordoba: dense for.

2/17

clearing

Swampy in open

clearing

on for. tree

in open

thickets

in ditch

dense for

- ✓ 33409 *Arac.*
 Inf. on trees; lvs red ben. Sterile
- ✓ 33410 *Cycas*
- ✓ 33411 ?
 T ± 6m, 2cm. diam; fls. wh (on main stem)
- ✓ 33412 Moss
 On dec. log
- ✓ 33413 *Chamaedorea*
 St. 7m to inf., 2cm diam; infl. brown.
- ✓ 33414 *Trichomanes*
 Climbing TT
- ✓ 33415 *Melast.*
 Slender sh
- ✓ 33416 *Dichorisandra*
 E. H.
- ✓ 33417 Moss
 On lvs. of 413
- ✓ 33418 *Gesner*
 Ep. cor. whitish
- ✓ 33419 *Geonoma*
- ✓ 33420 *Calathea*
 Fls. wh.
- ✓ 33421 *Ayathia*
 Caulis ± 3m; fronds 2m.
- ✓ 33422 *Leptochloa*
 Ssp. Cor. tube pink w, lobes pale for out; blue in
- ✓ 33423 *Isu. reticulata*
 Ter.; cor. wh.
- ✓ 33424 *Gesner*
 Ter. cor. wh.
- 33425 *Manisuris beccarii*
 Ter.

Cindoba: dense for 50-100 m.

2/17

US

US

US

~~33437a~~ *hirs.* ~~1950~~

33426 *Chamaedorea*

✓ 33427 *Melast.*

Sm Tr

✓ 33428 *Besleria*

Ter. Herb \pm 80 cm. br n.

✓ 33429 *Miconia*

~~Cyrtos~~

✓ 33430 *Cyathea*

33431 *Hep.*

on tt.

✓ 33432 *Asplenium*

on tt

✓ 33433 *Moss*

on tt

33434 *Leucobryum*

on tt.

✓ 33435 *Diolema lucida*

Pet. pi

✓ 33436 *Moss*

On Arac.

✓ 33437 *Arac.*

Ter.; Sterile

✓ 33438 *Vriarteia?*

Sterile

✓ 33439 *Moss*

on tt

✓ 33440 *Muricea grandis*

Ter. H.

✓ 33441 *Aulium*

On soil.

33442 *Gymnosiphon*

Saproph. per. greenish wh

Ardisia; dense fr., 50-100 m.

2/17

u

- 33443 Burmannia
Saproph.; fl. white
33444 Acanth.
T. H.; fr. gr.
33445 Anac.
Ep.; fr. green
33446 Rub.
Sun. tr. fr. light gr.
33447 Coenogonium
out
33448 Brown.
Ep. br. red; per. fr.
33449 Brown.
Ep. br. red; per. y
33450 ~~Anac.~~ Moss (33437a)
~~per. spathes w. out~~
33451 Costus?
33452 ~~per; 2nd an. m.~~ infl. red
Brown.
Ep. br. r
33453 Brown.
Ep.
33454 Brown.
Ep.
33455 Brown.
Ep. H
33456 Anthurium
33457 Moss
On lvs of 456
33458 Eleocharis
33459 Rynchospora

un-3 Cordoba, 50-100 m; dense for.

417

un-3

Open marsh

Open hillside

✓ 465a

✓ 33460 *Peperomia longispica*
Epi.33461 *Peperomia obovata*
Ep✓ 33462 *Xanthosoma bellavistae*
Rep. m. t.✓ 33463 *Piper*
S ± 1.8 m.✓ 33464 *Bilbergia*
Est✓ 33465 *Cucurbit*:
High climbing HV; cor. ~~orange~~ red✓ 33466 *Rub.*
Surf. H.; up to 80 cm.✓ 33467 *Polypodium* *Cucurbit*.
Ter. HV (33465a)✓ 33468 *Polypodium*
Ter.✓ 33469 *Tern*
Fr. ± 1.5 m.✓ 33470 *Passiflora serrata* - dig.
HV.✓ 33471 *Piper*
S ± 1 m.✓ 33472 *Piper*
S ± 50 cm✓ 33473 *Acalypha*
Smt 1-2 m.✓ 33474 *Scroph.*
H. fls. deep blue, foles dist✓ 33475 *Phorad.*
HV; fls. pi.; stam. yellow; cor. pinkish base in✓ 33476 *Centropogon*
Sh along fr.; cor. rich pi.3 Bahía Solano; ^{partially cleared forest} ~~near~~ ^{linda} ~~linda~~ ^{Mutis} sea-level

2/21

4/1

4/1

4/1

Quetzalcoatl marsh
marsh
clearing

2/22

edge of woods

- 33477 *Psychotria viridis*
S ± 2 m; fr. r.
33478 *Sabicea*
Bracts scarlet; cor. white 7. 5 ± 1.3 m
33479 *Siparuna grandifolia*
S, elong. br.; fls. wh. on main (stem)
33480 *Acrostichum*
HV; fr. bright r.
33481 *Passiflora vitifolia*
HV 50 p. scar. outer fil. red; inner wh.
33482 *Paspalum trifasciatum*
HV sterile
33483 *Rub.*
T, ± 3 m; fls. y
33484 *Epiphyllum*
Out.; fls. bright purple
33485 *Heliconia*
Bract red at cluster of faces, yellowish green otherwise
33486 *Gesner. communis*
Ter. cor. light pi
33487 *Polypodium*
Kp. on tr
33488 *Arac. ?*
Ter. sterile
33489 *Piper*
H, suffrutescent ± 1 m
33490 *Piper hirta*
S elong br ± 1.5 m
33491 *Piper nigrum*
H 80 cm; \pm suffrutescent
33492 *Pilea inaequalis*
Ter. & mt t, repent
33493 *Gesner. Peperomia*
H ± 1 m; fls. greenish white

Bahia Solano: dense forest along Chiriquita Lalla, no. of Antioquia
edge of dense forest 2/22

un

1K

per. olive green

un

un-15

18-

✓ 3010 C. L. F.

✓ Gesner.

✓ 33494 *Psychotria pendula*

S ± 1m; fls. greenish wh.

✓ 33495 *Psychotria pendula*

S ± 1m; nipl. pendulous

✓ 33496 *Tectaria trifolia*

Ter.

✓ 33497 *Polygodium*

Rep. on CT.

✓ 33498 *Siparuna*

S with elong. br.; pet. wh.

✓ 33499 *Diplazium*✓ 33500 *Gesner. aurantiaca*

Lvs red at apex or along margin; cor. bright y

✓ 33501 *Carludovica*

Stem 20cm.; nipl. at base

✓ 33502 *Heliconia*Blade 2m l.; pet. 1.5m.; ^{bracts deep red} ~~bracts~~ red, deflexed; ^{cor.} bright y✓ 33503 *Erythrina*

Small tree, ± 5m; trunk 15cm. diam., erect, unbranched

✓ 33504 *Melast.*

H 1-2m. fr. pi.

✓ 33505 Grass

"orquidilla"

✓ 33506 *Adiantum*✓ 33507 *Tectaria*✓ 33508 *Brachistia*

Cr. gr. H ± 2m.

✓ 33509 *Besleria*

S ± 1.5m br. red.

✓ 33510 *Dioscorea*

Bahia Solano: dense fr. along Chus. Lacha

✓ 541

/33511 *Dryopteris*/33512 *Bealoria alalipes*Er. unbran. sh. ± 2 m; fls. 2./33513 *Trichomanes*

Rep. on tt

/33514 *Psychotria macrophylla*

H up to 1 m

/33515 *Cosmibuena*

Sun. t 3-4 m; branches drooping

/33516 *Asplenium*

On trees; lvs in rosette

/33517 *Trichomanes peltata*

On tt.

/33518 *Piper elongata*S ± 2 m spike red./33519 *Geonoma*/33520 *Ardisia*

Fls. fl. wh

/33521 *Piper*

It.

33522 *Piper*

It

/33523 *Pilea gallowayana*?Ter. herb; fls. \pm 6 cm./33524 *Rub*T ± 3.5 m; fr. wh./33525 *Siplegia*

Ter.

/33526 *Polypodium*

Ter.

/33527 *Pteris*Bahia Solano : dense for. along *Arachida Lella* 2/22un

33528 *Anthurium*

Ter. Spathe wh.; spadix pi

33529 *Diplazium*✓ 33530 *Leptodermis*

Ter.

✓ 33531 *Costus*

H ± 1 m. Br. yellowish

✓ 33532 *Aphelandra*Br. bright r; cor. y. Sh ± ^{75 cm} 2 m, stem slender, straight✓ 33533 *Gesneria*

Sup. H. br. r., cor. pi.

✓ 33534 *Pilea carolinensis*

On tree

33535 *Pteris* (juvenile?)

un-ll.

✓ 33536 *Salaz.*

Prostrate on bank of stream

✓ 33537 *Pepinomia*

On tree

✓ 33538 *Hololecho*✓ 33539 *Compositae*

shrubs ± 2.50 m.

✓ 33540 *Henrietta*

Sh ± 4 m; pet. wh.

✓ 33541 *Polygodium* *Piper* *rub. gulf.*Ter. ^{5 m} 6 m (5 m) (5142)✓ 33542 *Fern*

Br. ± 1.8 m.

✓ 33543 *Trichomanes*

On branches

✓ 33544 *Diplazium*

Bahia Solano: down for. along th. Tercia

2/22

- 33545 Moss
On *Fectania trifolia* frond
- 33546 Moss
On *Euphorbia* leaves
- ✓ 33547 Moss
On dec. log
- ✓ 33548 Moss
On arid leaf
- ✓ 33549 Fern.
Ter. Br. greenish wh.
- ✓ 33550 Piper
H ± 2.5-3 m.
- 33551 *Cecropia*
- ✓ 33552 ?
T ± 4-5 m.;
- ✓ 33553 *Dryopteris*
- ✓ 33554 *Lasiacis*
- ✓ 33555 *Costus*
± 2 m.
- ✓ 33556 Piper
S 2-2.5 m, strictly dichotomous branching
- ✓ 33557 Sol.
S ± 2.5 m; fl. black
- ✓ 33558 *Besleria*
Cor. or.
- ✓ 33559 *Dicliptera*
H ± 50 cm; cor. fl.
- ✓ 33560 *Arae.*
- ✓ 33561 *Ajuga*
Sm. th. fr. or.

Calva soland: dense for. along E. side

2/22

clearing

thickets

dense for.

33562 ?

WV fr. red

un

✓ 33563

S; pendant fruiting branches; fr. y; calyx gr.

✓ 33564 *Campelia*

H. # 80-100 cm.

✓ 33565 *Heliconia*Lvs ± 1 m; br. r., yellow toward base; fl. y, ^{green at apex} ~~green~~✓ 33566 *Cojoba*T ~~± 6-8 m.~~ 6-8 m.33567 *Pavonia*

N; fls. wh.

un

✓ 33568 *Piper*

S # 2.5-3 m.

✓ 33569 *Passiflora chelidouca*

H.V. sterile

33570 *Peperomia*

sp.

33571 Lab ?

"Yarba-buenilla"

C ^{un}
Crotas ~~nodata~~ mordoluna de culabros ± 50 cm. fls.33572 *Coslin*Stem erect, simple, suffrutesc. 2-2.5 m.; infl. dependent
± 2 m; fls. red33573 *Aphelandra*Stem erect, simple, suffrutesc. 2-2.5 m.; infl. dependent
Erect, ± 2 m; fls. y. (cf 532) ^{Ph.}33574 *Dalechampia*

H.V.; bracts only gray

33575 *Eupatorium*

Erect, ± 2 m; florets pinkish w

33576 *Aphelandra*

H 80-150 cm.; br. r.; cor. rich pi

33577 *Peperomia*

• Ep.

33578 *Alternanthera*H. ± ~~60~~ 80 cm; lvs. red beneath; infl. wh

Batua Solano: dense for. along R. Tella

2/22

~~Flowering~~ Clearing

dense for.

Clearing

dense for.

Clearing

Clearing

edge of woods
dense for.+
Shrub. Secca (dry stream bed)

dense for. near R. Secca

clearing

- ✓ 33579 *Piper*
S ± 2 m.
- ✓ 33580 *Orae*.
Epip.
- ✓ 33581 *Adiantum*
- ✓ 33582 *Tournefortia*
S; stem simple or few-br., ± 1.5 m; cor. W
- ✓ 33583 *Mancitica*
H.V.
- ✓ 33584 *Solanum*
S ± 2.8 m; cor. wh., anthers y
- ✓ 33585 *Piper celtidif.*
S ± 3 m.
- ✓ 33586 *Calceitron*
H V cor. w.
- 33587 *Centropogon* un-16
WV; cor. r.
- ✓ 33588 *Pityrogramma sulphurea*
~~or~~
- ✓ 33589 *Acanth*
Er. inf. herb ± 1 m; cor. pinkish blue
- ✓ 33590 *Chamaefistula* un-8
S ± 3 m; pet. light y
- ✓ 33591 *Dryopteris*
- ✓ 33592 *Nelost.*
WV; fr. reddish
- ✓ 33593 *Canna*
H ± 3 m; lvs up to 80 cm; per. red.
- ✓ 33594 *Paspalis*
H V
- ✓ 33595 *Begonia*
suc. H V, drooping branches; pet. wh

- Balsa Solano ~~Clearing~~ ^{near th. sea} 2/22
- dense for.
- Bank of stream
- East of Ciudad Mitis; Clearing 2/23
- edge of for.
- Clearing
- Edge of for.
- Clearing
- Edge of for.
- open stream-bed (thick. Tello)
- Edge of for.

- ✓ 33596 *Ipomoea*
H V; cor. bright pink
- / 33597 *Grass*
H; ± 2.5 m.
H; along br.,
- / 33598 *Justicia*
H ± 50 cm; cor. light blue
- ✓ 33599 ~~*Amorpha*~~ *Moss*
On log of 600
- / 33600 *Amorpha*
T ± 10 m; ♂ wh.;
- 33601 *Peperomia*
Dependent on tt.
- / 33602 *Begonia*
H.
- / 33603 *Theobroma*
T ± 8 m; br. reflexed; fls. wh.; fr. r.
- / 33604 *Plipalis*
H; cor. y
- / 33605 *Phaseolus*
H V; fls. y g.
- 33606 *Grass*
Stems rootstock. Cult.
- / 33607 *Phaseolus*
H V; fls. purple & wh.
- / 33608 *Solanum*
H ± 30 cm; cor. wh
- / 33609 *Pinus*
On log of 600
- / 33610 *Calathea*
Lvs (incl. pet.) ± 2.5 m.
- 33611 *Grass*
H; fls. pi.
- / 33612 *Adiantum*

Bahia Solana: open stream-bed

2/23

clearing

Edge of fr

~~to~~
open stream bank
~~open stream bed~~

dense forest
open stream bank
~~open stream bed~~

"Basto Jacagua"

open stream bed.

" " bank

dense forest.

Pl 41

un K

- ✓ 33613 Melast.
H with long slender stem; lvs. red. base
- 33614 Lab. Commersonia? un
T 15m; fr. only.
- ✓ 33615 Inga
T ± 10 m.
- ✓ 33616 Sabicea
S; bracts pink pi; cor. pi. dist., base prop
- ✓ 33617 Piper
S $\pm 2-2.5$ m.
- ✓ 33618 Psychotria un - G
H ± 2 m; fr. wh.
- ✓ 33619 Selag.
- 33620 Trichomanes punctatum un - K
- 33621 Psilocarya un -
H
- ✓ 33622 ~~Dryopteris~~ Cyclothem Arisaema var. chorocense A.K. Smith
- ✓ 33623 Chamaedorea
Tr. ± 2.3 m, 10 cm. diam; ^{lvs. ± 1 m} infl. at base of lvs
- ✓ 33624 Neumelia ^{7 cm. diam.}
Caulis ± 1.2 m ^{fr. ± 1.5 m. long.}
- ✓ 33625 Danaea
- ✓ 33626 Melast. un - G
- ✓ 33627 Clavija
Sm. ± 3 m; buds green wh.; ~~the~~ trunk straight
- 33628 Anthurium Pl \pm Ph. 8.9 at
Ter. Herb; spathe w. V. 12.2
- ✓ 33629 Vanilla
H V.

Bolivia Solano: deane for.

2/23

un - 340
open stream bed

deane for.

open stream bed

Edge of for.

- ✓ 33630 Gesner.
H V; cor. wh.
- ✓ 33631 Fungus
on log
- 33632 Fungus
ss.
- ✓ 33633 Peperomia
st
- ✓ 33634 Tetracera
W V climbing on trees
- ✓ 33635 Condaminea corymbosa
S
- ✓ 33636 Lecythisdacea
Fruit found on ground
See Separate Fruit Collection.
Fr. sep. 1 lft with blue
- ✓ 33637 Orch.
5 ft. pi.; lf. wh. not proc.
deep purple dist. out, in, y at
Ter; stem simple ~~1-2~~ ± 2.5 m. | center; col. wh.
- ✓ 33638 Piper
St ± 2.5 m.; br. div.
- ✓ 33639 Phor.
Pars.
- 33640 Hyptis.
Cor. pinkish wh., with small purp dots
- ✓ 33641 Valeriana sorbif.
Cor. w
- 33642 Melast.
H \pm sup. pet. mag.
- 33643 Stylosanthes
Pet. y
- ✓ 33644 Castilleja
Br. red.
- 33645 Euph.
H \pm sup. \pm 60 cm; fls. o. r. l. y. bright pi
- ✓ 33646 Dryopteris

Bahia Solano: open thicket

2/23

open stream bed

thickets

edge of for.

dense for.

San Antonio ~~to~~ thickets 1900 m.

2/26

Partially shaded bank

/33647 *Lourea*

Roots separate. Cf if 2 things here

/33648 *Thib.*

S ± 60 cm; fr. wh.

/33649 *Eup.*

S ± 1 m; fl. & styles pink blue

/33650 *L. C. C. C.*S, simple stem; ~~stems~~ ± 2.5 m; inf. at apex; cor. pink/33651 *Thib. E. C. C.*

S ± 50 cm; fr. bright pink

/33652 *Salvia paleonif.*

H.; cor. rich blue

/33653 ? *Thib.*

S ± 2 m; fl. wh.

/33654 *Viola*

fl. wh.

/33655 *Ara.*

S ± 2 m; fl. wh.

33656 *Moss*

On stems of 655

33657 *Polyph.*

Ep

33658 *Hep.*

Ep

/33659 *Meriania*

"Siete cuervos" or

/33660 *Psychotria*

S ± 5 m; cor. pink

33661 *Besleria*

S ± 4 m; cor. r.

/33662 ?

S ± 5 m

/33663 *Thib.*

S ± 4 m; fr. wh.

San Antonio 1800 m. edge of woods (t. 1000)

2/26

Dense for. E 2000 m

- /33664 Brom.
 Ep. Per. bright blue
 33665 Moss
 On lvs 664
 33666 Eleocharis
 Ep. dr only
 33667 Acauth. un.
 Ep.
 33668 Melast.
~~T~~ T ± 5 m; fls. pi.
 33669 Gesner
 T; cor. r, lobes purple at center, y at margin. ^{lvs solid r. lvs. or with large r spots}
 33670 Gesner species ^{lvs}
 T; cor. r throughout ²
 33671 Acauth.
 H ± 1 m; cor. pinkish wh, lobes deeper pi
 33672 Senecio ^{Camp}
 H V; rays y
 33673 Phyllanthus
 slender upright \pm prostrate branches or bank
 33674 ~~Ep.~~ Cup.
 S ± 2.5 m; fls. wh
 33675 Baccharis?
 S 1-1.5 m; infl. pinkish wh
 33676 Grass
 along cr.
 33677 Calceolaria
 H ± 40 cm; cor. y
 33678 Acauth. u
 dr. only
 33679 Acauth.
 33680 Rub.
 Tree ± 6 m; fls. branches red; lvs. y

San Antonio, 2000 m.; dense for

4/26

wooded edge of woods (bank)

El Valle: Yanaconas ^(Monte Frio) ~~La Victoria~~, 1700-1850 m. 20°C 2/27
 open bank
 dense for.

- /33681 *Psychotria cuspidata*
 Sh. or succ. tr., up to 2.5 m; fls. ~~white~~ wh.
 /33682 *Psychotria*
 succ. 4-5 m; fls. wh.; lvs. smooth; fr. red.
 /33683 *Arac.*
 Ep.; ~~fr.~~ bracts red at base.
 /33684 Moss
 juv.
 33685 *Peperomia quadrifolia* "Cuadrillito" len
 Ep. Medicinal para la gonorea
 /33686 *Piper*
 Sh. \pm 2.5 m.
 /33687 Rub.
 T \pm 5 m; fr. wh.
 /33688 Rub.
 Infl. branches r.; fr. sm blue. T \pm 3 m. 2
 /33689 *Arac.*
 Ep.;
 /33690 Arch. \pm 30 cm.
 /33691 *Arac.*
 Ep.
 /33692 *Pothomorpho* "Hoja de ~~Santamaria~~
 \pm 4 m Medicinal. Santamaria"
 /33693 Rub.
 Herb; fr. blue
 /33694 "Hoja de la ^{Uva} sangre
 Herb. \pm 1 m.
 /33695 *Piper* "Cordoncillo"
 S \pm 3 m.
 /33696 *Peperomia*
 Ep. fr. with red red lines
 /33697 Fern. "Doradilla"

Yanaconas

elevation: 1700-1850 m.

727

- ✓33698 Orch.
Ep. ± 1.5 m. ~~Pet 5 pet. y. red at center~~
✓33699 Arac.
Ep.
✓33700 Oncidium
5 pet. y, lip red, y at center. Ep.
✓33701 Fern *Thelypteris piloso-hispida* (Hook.) Alst. det. A.R. Smith, 1978
 ± 2 m.
✓33702 *Passiflora tryphi*.
H.V. fls. wh.
✓33703 Elapl.
On tree
33704 Cyper.
33705 *Amyclium*.
Ep.
33706 Fern
✓33707 Moss
✓33708 *Piper lorei*
Sh ± 4 m; spikes ± 50 cm; lvs. like an *Antennaria*
✓33709 *Lindsaea*
Ter.
✓33710 Moss.
On dec. branches
✓33711 *Cyathra*? Ph-54
Caudex ± 9 m. high, 10 cm. diam; lvs. ± 6 m. long
33712 *Cecropia*
T ± 14 m; lvs. wh. beneath.
✓33713 Gesner.
Stem simple; fls. maroon.
✓33714 *Psychotria nervosa*
H. Pr. black, very lustrous

Yanacoras 1700-1850 m. ^{dense for.}

2/27

- /33715 *Lycopodium*
Rastrea
 /33716 Moss.
 On dec. branches
 /33717 Fern
 Growing perpendicular to the ground
 /33718 *Panicum*
 ± 50 cm.
 /33719 *Paspalum*
~~Fls.~~
 /33720 *T. brachium*
 Herb, ± inf. 60-70 cm; fls. ~~white~~
 /33721 *Vernonia*
 Tall vine; leaves linear
 /33722 *Verbena*
 Tree ± 6 m; fls. wh.
 /33723 *Uncaria crassifolia*
 Tree 10-15 m.
 /33724 *Wernmannia*
 Tree ± 8 m; fls. wh.
 /33725 *Melast.*
 PB ± 2 m, ^{suffr.} stem erect; fls. in axils of lvs.
 /33726 *Sciadoplychn*
 Tree ± 15 m.
 /33727 *Isoloma*
 H. fls. 2.
 /33728 *Moss*
 Bright green; ~~on~~ on dec. logs.
 /33729 *Cubus*
 H. V. Fls. wh.
 /33730 *Befaria*
 Tree ± 5 m; cor. reddish pi. (some plants
 /33731 *Cordia*
 S ± 1.5 m; fls. wh.

Yauaconas, 1700-1850 m; dense forest

2/27

~~Open~~

Open hillside

Edge of wood

dense for.

~~Clearing~~
 Clearing

- ✓33732 Sol.
 Herb; fls. lilac; lvs. very spring
 ✓33733 Melast. "Montano"
 8 ± 1 m;
 ✓33734 Melast.
 ± 1 m.
 ✓33735 Sol. Melast.
 fls. $\frac{3}{4}$ S. 50-2 m.; fr. gr. with lilac lvs.
 ✓33736 Sol.
 S. 50-2 m; fls. y; fr. gr. with lilac lvs.
 ✓33737 Tibouchina
 H; stem simple; cor. purp.
 33738
 H; fls. wh.
 33739 Stenophyllus
 H.
 ✓33740 Pisonia araca. "Guayabo"
 T
 ✓33741 Fern.
 ✓33742 Calliandra carbonaria
 T ± 7 m; stem bright red.
 33743 Hib. longifolia
 Ep.
 33744 Elaeagia "Barina"
 "Barina de Tacho"
 T ± 7 m; no fls.
 33745 Ficus
 T ± 5 m.
 ✓33746 Selag.
 ✓33747 Pandanus
 ✓33748 Ruprechtia polyphylla

Yanacunas, 1700-1850 m; clearing

727

open hillside

Yanacunas (El Silencio) 1900-2200 m.

728

dense for.

open hillside

dense for.

Open hillside

fruit edible

33749 *Paspalum*33750 *Digitaria*

"Orquecilla"

33751 *Gesum.*

H ± sup. 30 cm.; fls. r.

33752 *Cenchrus*

HV; cor. deep pi.

33753 *Gesum.*

Er. S; 1-1.5 m; cor. r.

33754 *Aira*33755 *Saurauya*

fruit edible

T, ± 9 m; pet. wh

33756 *Sisyrinchium*

Per. pale y

33757 *Apali*

Fls. lilac.

33758 *Rubus glaucus*

WV; pet. wh; fr. r

33759 *Gesum. atrolineata*

H; fls. red, with black lines within

33760 *Gnaro*33761 *Sol.*

"Papasiglatu"

stem ^{sub} repent; fls. wh.33762 *Hydrocotyle*

Repent h; fls. greenish wh.

33763 *Potentilla*

Repent H; fls. y

33764 *Acalypha*

T ± 5 m.

33765 *Plantago*

Yanacunas: El Silencio; open hillside

2/28

dense for.

potrero

dense for.

potrero

dense for.

potrero

33766 *Sanicula liberta* C. & S.

33767 *Gesner. falcata*

H, cr; cor. 1.

33768 *Begonia*

H; 30 cm; fls. wh.

33769 *Peperomia*

Very small epip.

33770 *Och.*

33771 *Peperomia* *negra*

33772 *Asplenium*

33773 *Elag.*

33774 *Lasiacis*

33775 *Och.*

33776 *Peperomia*

Ter. 5 ped. green; lvs. wh; col. deep gr.

33777 *Rub. angustifolia*

33778 *Polypodium costaric.*

33779 *Hep.*

Wet soil

33780 *Lichen*

Bright green above, white beneath

33781 *Solanum*

Er. H, ± suff., ± 1 m.; cor. y.

33782 *Sol.*

N. Er. 50-1 m; ~~fls~~ cor. wh.

Yanacouas: El Silencio; demefor.

2/28

- 33783 *Uncinia*
Ter.
- 33784 *Burmeisteria*
Er. 5 ± 1 m; cor. green
- 33785 Moss
On lvs. of 784
- 33786 Orch.
Refert orth; fr. only
- 33787 *Polystichum*
- 33788 *Asplenium*
Ter.
- 33789 *Asplenium*
- 33790 Elaph.
On fallen t
- 33791 Hep.
with 790
- 33792 *Chamaedorea*
Trunk ± 2.3 m to infl.
- 33793 *Lasiacis*
high climbing v.
- 33794 *Arac. rubra* *Spathiphyllum*
Ter.
- 33795 *Peperomia*
Ter.
- 33796 *Piper*
 5 ± 1.5 m.
- 33797 *Besleria*
On H \pm sup.; erect st. ± 1 m; ^{bracts r.} Cor. R, with white hairs
- 33798 orch. *Pleurothallis*
Ep. 3 ft. red, darker r. at center; 2 pet lvs. & col. y.
- 33799 *Piper*
S; styles purple

Yaucoconas: El Silencio; dense forest

2/28

un-3.

- 33800 *Paucellium*
High-climbing, woody vine; spikes wh.
- 33801 *Gesner. elongata*
H ± 1.5 m; stem erect; cor. r.
- 33802 *Myrsine*
T ± 8 m; fls. w
- 33803 *Magnoliaceae* "Cabralo"
T ± 30 m; fls. sessile, purple; stamens wh.
- 33804 *Bactris* "Chontilla"
Trunk ± 2.5 m to infl.
- 33805 ~~Bactris~~ "Sanea de araña"
T, ± 15 m; fr. only
- 33806 *Gesner.*
Subscandent herb; lvs. only
- 33807 *Marchantia*
On bank
- 33808 *Cerastium* u. ~~u.~~
- 33809 *Fungus*
On tt
- 33810 *Lichen*
On tt
- 33811 *Asplenium*
On tt
- 33812 *Diplazium*
Short stout thick caudex; fr. ± 2 m.
- 33813 *Marchantia*
On wet bank
- 33814 *Moss*
With 813
- 33815 *Polytrichum* sp. und
On moist bank
- 33816 *Centropogon*
Er 5, 80-1.2 m.; fls. red

Yanacouas: El Silencio; dense for.

2/28

potens

dense for.

33817 *Diplazium*33818 *Gesner*.H \pm 80 cm.33819 *Elaeagnus*.

On fallen TT

33820 *Pennisetum praecox*H \pm 1 m.33821 *Aculean*33822 *Carludovicia*33823 *Heliconia*

Br. red; fr. y; infl. erect.

33824 *Piper*S \pm 2 m.33825 *Diplazium*33826 *Dryopteris* *Thelypteris pilosa hispida* (Hook.) Alst. det. A.R. Smith33827 *Gesner*.H \pm 1 m; cor. bright r.33828 *Gesner*.

H cor. r.

33829 *Passiflora*

On log; deep red br.

33830 *Passiflora*

On logs

33831 *Pilea*

Ter; sterile

33832 *Phyllanthus*

S, 20-60 cm; fls. greenish y.

33833 *Arac.*Petiole r, with wh. bands; lvs deep gr., white
along veins.

Yaucoas: El Silencio; dense for.

2/28

75704

33834 *Hsuea*
 Drooping, from trees

33835 *Gesner*

H fr. wh.

33836 *Thib.*

Ep.; buds red out.

33837 *Elaeagnus*

U-15

Ep. fr.

33838 *Anthurium*

Ep.; sp. pink

33839 *Anthurium*

U-15

Ep.

33840 moss

on T.

33841 moss

on

33842 *Orchid*

S ± 2.2 m; pet y

33843 *Polypodium*

U-15

on T.

33844 Fern

Very common at this alt., but more fr.

33845 *Bromel.*

Ep. buds deep green at apex

33846 *Alchornea*

T 10-15 m.; fr. deep gr.

33847 *Myrt.*

fr. wh. T ± 15 m.

33848 *Visinia rufescens*

"Laere"

T 3 m; ind. reddish

33849 *Verberna*

"Verberna"

N.

for *Lophosiphon*

33850 *Grass*

Yanaconas: El Silencio, dense forest

2/28

2000
 7500 m.

Yanaconas: near school
 edge of woods

open fields

3/1

33851 *Rapanea guianensis*
T \pm 4 m.

33852 *Paucina*

33853 *Asoloma*

Erect h, \pm 1 m; cor. r.

33854 *Cephaea*

Fls. pinkish blue; very common

33855 *Paspalum*

33856 *Cucubora*

Pl. 56

Pl. "Cassareli"

T \pm 8 m.; cor. wh.

33857 *Eleocharis*

Moist ground

33858 *Nymphaea*

On bog

33859 *Tournefortia*

S 2.5-3 m; fls. + fr. wh.

33860 *Tropaeolum*

HV; pet. bright r.

33861 *Browallia*

H; cor. bright bl.

33862 *Clusia*

T 6-7 m.

33863 *Liabum*

Erects ⁶⁰ ~~1.60~~ - 1 m; florets y

33864 *Weinmannia*

S \pm 2.5 m; fls. wh.

33865 *Tigridia javana*

H.

33866 *Desmodium*

HV; fls. bright bl.

33867 *Clidias*

Inf. wh; S with elong. br.

Tulipan

u 15

u 16

Yandoua: near school; Thales

3/1

bank

open hillside

Along stream

Dense forest \pm 2000 m.

El Valle: Saladito, \pm 1500 m.

3/2

San Antonio, 2200-2350 m.

bank along trail

dense for.

bank along trail

dense for.

bank along tr.

- 33868 *Sobralia* Ura
Ter ± 80 cm; per. wh.
- 33869 *Eleocharis*
Ter, ± 80 cm; br. pi; per. (buds) wh
- 33870 *Epidendrum fimbriatum*
Ter; 5 pet. wh or pinkish; ^{lip same} few spotted purple; ^{2 spots}
- 33871 *Begonia?* sub.
Ter; pet deep pi to r; ± 50 cm.
- 33872 *Thib.*
Br. purp. cor. wh at base & apex, pi at ~~center~~ middle
- 33873 *Fraxos*
On bank, dull gr. above, which ~~ben~~
- 33874 *Psychotria* u-11
S ± 1.5 m.; cor. rich purple
- 33875 *Clusia brevicauda* Ura
T, 5 m; buds cream
- 33876 *Disterigma*
S, much branched, branches hanging over shrubs; ^{br. pi;} ~~leaves~~
- 33877 *Rub.*
T ± 8 m fr. only
- 33878 *Anthurium* u-b
Ep.
- 33879 *Ochli* u-11
^{stemless}
Ep; 5 pet. pt; lip & wh, y-g at apex; col. wh.
- 33880 *Thib.*
Ep; long br.; calyx & cor. below deep pi, cor. above ^{wh}
- 33881 *Desm. rugosa*
Br. r; fr. wh.
- 33882 *Arch*
- 33883 *Ep; per. greenish brown*
Stelis
- 33884 *Ep; fr. gr.; 3 pet. deep pi, lip & col. gr.*
Arch
Ep. sterile?

El Valle: San Antonio, 2200-2300 m. 3/2
Rhinobato

roadside bank

dense for.

± 710065 .

- 33885 Hymen.
Drooping on TT.
- 33886 Myrsin.
T 5-6m; cor. pi, spotted
- 33887 Polypod.
Ep.
- 33888 Polypod.
Ep.
- 33889 Acauth
H Br. pi.; cor. wh, unspotted
- 33890 Asplen.
Ep.
- 33891 Burmannia
H; cor. gr.
- 33892 ?
T \pm 15m; calyx very fleshy; fls. r. fr. wh.
- 33893 Gesn.
H \pm 80cm; cor. r.
- 33894 Anthurium
Ep.
- 33895 Gesn. sericea
T; cor. deep pi.
- 33896 Orch.
Ep.; buds reddish
- 33897 Pteris
- 33898 Myrsin
T \pm 6m; trunk 8cm; fls. wh.
- 33899 Dryopteris *Thelypteris lepicurii* (Hook.) Tryon var. 1. det AR Smith 1976
- 33900 Polytichum
On dec. & T
- 33901 Hep.
DD

El Valle: San Antonio, 2200-2500m

9/2

unk

U-11

- 33902 Polypodium U-11
 33903 Amyclium
 33904 Bauhinia
 # Long-climbing vine; sterile
 33905 Gesneria W
 Ter. \pm 60 cm; br. y.
 33906 Orchid col. greenish y
 Ter. 3 ft with wh. hairs, y apex, canine base; ^{light yellow} with canin line
 33907 Dyplosia
 33908 Policonia
 Sm tr, \pm 3 m; branches inf. blue; ^{light blue over} cor. ^{light} lobes ^{deep} green
 33909 Anthurium
 Sp. spathe wh; spad. reddish pi
 33910 Chamedorea
 Trunk \pm 2 m.
 33911 Brom.
 Sp; fls. ~~light blue~~ of 6-5 (6-4+) bracts red-brown
 33912 Brom.
 Sp. Bract r
 33913 Carludovicia
 Sp. Ter. \pm 3 m; fr deep pi
 33914 Gesneria
 Sp; br. r.; buds greenish-y; fr. white
 33915 Piper
 T \pm 4 m.
 33916 Peperomia U-9
 Ter.
 33917 Cleome
 H \pm 2 m; fls. purplish
 33918 Anthurium U-9
 Sp.

San Antonio, 2200-2300 m, dense fr.

3/2

- 33919 Polypod.
Rep. on tt
- 33920 Gesner.
Ep.; br. r.
- 33921 Bonmaria
H. V. ^{shady} ~~high~~ - climbing; flt. red, ^{with large purple spots} less. of toward y claus.
- 33922 Mimosa florib.
Stem. pr.; 5-2 m, branches along
- 33923 Lantana
Suffrutescent. 30-1.5 m; cor. wh, pink-tinged
- 33924 Acalypha
T \pm 5 m.
- 33925 ?
T \pm 8 m; fr.
- 33926 Sol.
Er. S ~~5 m~~ \pm 1 m; fr. purplish-black
- 33927 Rynchospora
- 33928 Euph.
T
- 33929 Samanea
T ~~4-5 m~~ 3-4 m.
- 33930 Tillandsia
Ep.
- 33931 Philanthus
H; fls greenish
- 33932 Asplen
Ep
- 33933 Melast
T 3-4 m.
- 33934 Hymenoph.
Drooping from branches
- 33935 Centropogon
S 1.5-2 m; cor. or, red apex

San Antonio; dense for.

3/2

on inside (only).

thickets

dense for.

33936 *Nelost.*S. ± 2 m; pet. w, stam y

33937 Moss

Drooping from branches

33938 *Begonia*

Shrub, 30-50 cm; pet. wh

33939 *Alsophila*Caudex short, subterranean; fr. 5 m. l., ± 2 m. ^{incl. stipe}33940 *Thelypteris*

T 7-8 m; cor. wh

33941 orch.

u-1

Ter; fl. wh

33942 *Chamaedorea*Stem ± 8 m

=62 Ph. 1 (with S.)

33943 *Chamaedorea*Stem ± 8 m; trunk ± 9 cm diam.

=63 Ph 2

33944 *Chamaedorea*Stem ± 2.5 m, 2-3 cm diam. ^{prostrate} =64 Ph 3

33945

"

usp.

usp. ph

Slender tree, trunk ± 2.5 m high

33946 Moss

On dec. log.

33947 Inga

T ± 10 m 8 m; Stam. wh.

"Guabo parero"

"El Hatico," Hac. of Dr. Molino Garcia, 2 Km, nr. of Palmaria

3/5

Open

33948 *Melastoma peruviana*

Young tree, intro.

u Ph-69

33949 Inga

T ± 5 m; st. wh

"Guavino" "Guabito"

Woods

33950 orch.

Lign. gr. out, wh & pi-stripe in

Ep. 5 pet. gishy, densely lined in with deep pi,

col. green

33951 *Commaceae*H. ± 2 m; br. y, becoming reddish if fr. fresh leaves, reddish after33952 *Croton gonggoh?*Sh. a sent ± 2.5 m,

33956a. *Piper*
SE 2 m.

33958 *Cordia alliodora*.
5 ± ~~1~~ 1.4 m;

33954 *Bignonia*
Woody vine; ev. y.

33955 *Bignonia*
Woody vine; cor. wh.

33956 *Ploradendron*
Parasitic

33957 *Polygodium fimbriatum*
Sh. ± 2 m (956a)

33958 *Basell.*
HV

33959 *Holcus*

33960 *Lantana*
Suff. herb, ± 1 m; cor. wh to pinkish wh.

33961 *Crucif.*
Pet wh

33962 *Echeveria*
Succ. lvs.; buds yellowish

33963 *Orch.*
Ter; 3 sup gr, 2 + lvs 4-9.

33964 *Hibiscus* or *Abutil.*
H ± 2 m; fl. red. (cult.)

33965 *Passiflora bogotensis*
H.V.

33966 *Ardisia*? *Polygodium fimbriatum* = alt 7410
5 ± 1.5 m; cor. pinkish y

33967 *Pilea lindleyi*
H. up to 80 cm.

33968 *Ficaria*
H. fls. or-y

33969 *Alchem. orbic.*
Roots subrep.

V = to Sand Inst.

El Hatico

open grassland

3/5-

woods

And.: Bogotacito, ± 2200 m ^{Shaded bank}

3/8

Venturosa

un

un

Salto de Segundama; ^{alt. ± 2500 m.} partially shaded
island

- 33970 *Grisea* (not *celosia*)
H, subscandent; info. greenish wh.
- 33971 *Comp.*
S 2-2.5 m; info. grayish wh.
- 33972 *Salvia*
H; cor. deep blue
- 33973 *Cypripedium* "Acaclera"
N. elong. branches up to 1 m long; pet y
- 33974 *Cupressus* *serpyllifolia*
Subrep., suff. herb; pet. rich purple
- 33975 *Kyllburgia*
Moist soil
- 33976 *Begonia*
Herb. br. herb up to 1 m high; fr.
- 33977 *Saurauia*
T \pm 5 m; pet wh.
- 33978 *Comp.*
S \pm 1.5-2 m; rays wh.; florets greenish
- 33979 *Pilea gonolobium*
Suc. herb up to 1 m
- 33980 *Passiflora* *erythrophyllos*
H. V.
- 33981 *Valeriana*
H. V.; fls. greenish wh.; fruit with papery but not edible
- 33982 *Comp.*
Bracts greenish wh. S \pm 3 m.
- 33983 *Oenothera*
Pet y
- 33984 *Piper*
S \pm 2.5 m
- 33985 *Comp.*
Herb. S \pm 1 m; fls. wh.
- 33986 ~~*Mitostemma*~~ *Oenistemon*
Scleroph. br; cor. wh.
S 2-2.5 m; cor. greenish y

3/8

Salto de Tequendama; partially
shaded hillside

woods

shaded hillside

33987 *Euph.*S \pm 2.5 m; strob.33988 *urtica*

Slender herb; rays wh.

33989 *Stevia*

Fls. wh.; sup. herb 35-50 cm.

33990 *Aypha defetala*

Sh, long slender br. up to 1.5 m. long; pet. deep purplish-blue

33991 *Heimia*

HV

33992 *Thit. cordata*

Much br. sh, branches erect; cor. tube deep pi, green apex

33993 *Bouteloua*33994 *Psychotria*S ~~1.5-2 m~~ 1.5-2 m; up. branch pi.33995 *Epidendrum*

Ter. per. seg. all light green, fleshy

33996 *Isoloma*Er. sh \pm simple stem, \pm 1-1.5 m high33997 *Castilleja*Sup. ~~herb~~ ^{\pm 1 m} Shrubby; br. r.,33998 *Melast*Sup. herb ^{\pm 50 cm}; pet. deep pi, anthers y.33999 *Euphorbia*34000 *Bouana racemosa*
~~herb~~ creeping;High-climbing vine, upper part of stem
red nodes34001 *Morinima*S \pm 50 cm; pet. deep blue34002 *Apium*

Un

34003 *Geranium*

St. suberect; pet. pi.

Salto de Tequendama

shaded hillside

3/8

open woods

#

open hillside

open woods

open hillside

Thickets

open hillside

34004 Grass

34005 Myrica pub.

T 3-4m.

34006 Trif. filiforme

Ref. H.

34007 Eleochar.

pitch

34008 Cuphea

H; slender, sparsely br; pet. blue

34009 Cuphea

H. pet. deep pi.

34010 Phytolac.

2.0-1.5m.

H ~~± 1.5m~~; fls. o fr. rich pi

34011 Carex

34012 Miconia thaezans

~~Succ.~~ Succ. to 2.5-3m; pet. wh

34013 Casearia

± 2.5m;

S. long fr.

34014 Grass

34015 "

34016 "

34017 "

34018 Paspalum

34019 Cordia

S 2.5-3m, stem ± 10 cm diam; cr. light gr, erect (w lobes/denticulate)

34020 Ryuchiopsis

Salto de Tegucigalpa; open hillside

3/8

woods

open hillside

open hillside

~~4~~

u

- 34021 ~~Stachys~~ *Sphagnum*
Stem tr.; cor. wh.
- 34022 *Mimosa*
with elong. branches;
St. cor. wh.
- 34023 *Weinmannia*
Sm t; sterile
- 34024 Grass
Elong stem
- 34025 *Claytonia*
H subsc.; pet. wh.
- 34026 *Bomarea*
See notes on 34000
- 34027 *Alternanthera*
Subsc. herb; heads greenish wh.
- 34028 *Scroph.*
H.; cor. light y
- 34029 *Passifl.*
H.V. climbing over shrubs.
- 34030 *Rynchospora*
- 34031 *Plantago*
- 34032 *Boehmeria* *ragosa*
S 50-100 cm.
- 34033 *Tropaeolum*
H.V.; calyx r, lobes gr; pet. ~~sub~~ purple black
- 34034 *Begonia* *tropaeolifolia*
Suc. vine, dependent on bank
- 34035 Grass
- 34036 *Calceolaria*
Cor. y
- 34037 *Myrt.*
T ± 4m br.

Salto de Tequendama; open hillside
E

3/8

shaded hillside

open woods

~~open~~ hillside

Thicket

~~at actual spot shaded~~

open bank

Thicket

open hillside

wet bank

edge of woods

34038 *Cissampelos tropaeolifolia*
H

34039 Polyst.

34040 Moss

34041 Orch.

34042 *Viburnum*

S ± 3 m; fr. black; fls. wh

34043 *Splachnaceae*

S ± 1 m; corolla deep blue; fls. blue

34044 Leg.

"utamo"

Sup. H to 1.2 m; fls. y

34045 *Epiphyllum*

5 pet. light pi; lip w; col. y. Ter.

34046 Grass

34047 Paep.

34048 *Rubus*

Woody vine; fr. black

34049 *Pasp. mista*

"Curuba"

H ✓ St p. n.; corolla w; irregular.

34050 *Cordia*

S 2.5-4 m; cor. wh.

34051 *Hesperomela*

"Martino"

S ± 2 m; pet. wh

34052 *Parosela*

T; calyx & st. cream wh.

34053 *Hesperomela*

Un-P

34054 *Rapanea*

T to 5 m

Salto de Tequendama; thickets

3/8

Brink of falls

Above Usaquén, 9200-9500 ft.; ^{bank} along road
= 2800-2900 m.

3/12

34055 *Smilax tomentosa*

WV

34056 *Espeletia*34057 *Senecio*S \pm 70cm; fls. y34058 *Oreopanax*T \pm 7m34059 *Lichen*

On twigs

34060 *Moss*

On soil

34061 *Arch-Mastelaria*Ter; 5 pet. greenish, pi-tinted; lvs pi-spotted ^{col y}34062 *Moss*

On branches

34063 *Lichen*

"

34064 *Lichen*

"

34065 *Moss*

On soil

34066 *Sphagnum*

"

34067 *Lichen*

On branches

34068 *Lichen*

"

34069 *Sphagnum*

On soil

34070 *Polytrichum*Mixed with *Sphagnum*34071 *Stelis*Ep. *lutea* pi

Above Uraguain, 9200-9500 ft.

s/r 2

Los Gages, below Par. de Guacat
 \pm 10700 ft. (3250m)
 woods

- 34072 *Seneio*
 Infl. 7-9. S 2-3m.
- 34073 *Bouarea*
 HV, slightly vol., climbing to 3m; sep + pet. red, yish prior
- 34074 *Macrocarpaea*
 S 2-2.5m; cor. greenish y; branches ar.
- 34075 *Moss*
 on soil
- 34076 *Weinmannia*
 S
- 34077 *Drimys*
 Su-tr. ^{fruit} fl. cream
- 34078 *Tibouchina* *guasa*
 T 3-4m; pet. deep red
- 34079 *Culeita*
- 34080 *Stelis*
 Cf; per. seg. gr., ^{perish} slightly ^g - turgid.
- 34081 *Mynna* *ac*
 S
- 34082 *Eloph.*
 Ter.
- 34083 *Aspl. zorra*
 Ter.
- 34084 *Rhexia* *refracta*
- 34085 *Polytr.*
 Rep. mt.
- 34086 *Loumaria*
~~S~~
- 34087 *Stelis*
 Cf; per. y
- 34088 *Hep.*
 roots of arch.

Un-P

Gino Bona

Un-P.

Los Gaguas, below Par. de Guasca
 + 10700 ft.

3/12

= 7472

~~Alt. 7446~~

= alt. 7490

= alt. 7463

= alt. 7479

= alt. 7454

34089 Orch.

Ep.

34090 Baef.

moist soil (Sphag.)

34091 Rynchospora

34092 Hypericum

5 30 cm - 60 cm fls. y.

34093 Moss

Hanging from branches

34094 Hymenoph

34095 Jamesonia

34096 Psilogramme

34097 Diploteris

Compact S, up to 50 cm; rays purple

34098 Polytichum

Hanging on trees

34099 Espeletia grandifl.

Ph-82

34100 Palypodium

Ep.

34101 Psilogramme

Vin

34102 Azugium

Cen-P

34103 Aster

34104 Grass

34105 Sisyrinchium

Per. y

Cen. P

3/12

#

Paramo de Guasca, ± 11000 ft. (3350 m)

woods

= Alston 7489

= Alston 7459

open

Los Gages

woods

Par. de Guasca $\pm 11,300$ ft. open ³⁴⁵⁰ (3475 m)

woods

open

= ~~7485~~ Alston 7485 / woodsLos Gages ± 10700 ft.

open

Par. de Guasca $\pm 11,300$ ft. ³⁴⁵⁰ (3475 m)

34106 Carex

34107 Rubus chocoensis

Suberect S, elong. branches; fls. pink-red

34108 Halimium

Cr. & light green

34109 Wurmia

Sep. lvs pale green; sep. yellow.

34110 Acaena

34111 Epidendrum

Efr. Per. sep. obov y-g, lip. pi-spotted; cal. pi.-margin

34112 Orch.

Efr.

34113 Hep.

Roots of orch.

34114 Elaph.

Ter.

34115 Selkonia

Subsc. herb; pet. white

34116 Hymen.

Efr.

34117 Orch. (distichous)

Efr. per. yish-y

34118 Lichen

On branches

34119 Chusquea weberbaueri

St. erect 1.5-2 m

34120 Paep.

young lvs very hairy

34121 Moss

on bank

34122 Galium

Cr. wh. E. H

Par. de Guasca, ± 11,500 ft open (3450 m)

3/12

woods

Los Gages, ± 10700 ft.

Par. de Guasca, ± 11,300 ft. (3450 m)

= Aelstr 7488

open

woods

34123 moss
on trees

34124 *Oryopteris fruehii*

34125 "

34126 *Polypodium*
Ep.

34127 *Cestrum*
S 1-2 m; cor. y.

34128 *Vicia*
Cr. h., ± 15 cm; fls. pinkish blue

34129 *Carex*

34130 Lichen
On rocky bank

34131 *Werneria*
Caespitose plant on ground; rays wh

34132 *Paspalum* un-12

34133 *Stachys* *divinoides* 39
Cor. blue un-15

34134 Eup.
Sh. ± 1.5 m (compact) (old)

34135 *Vaccinium*
S ± 2 m; cor. wh

34136 Grass un-16

34137 *Eupetitia*
Ray 4; fl. antessile

34138 *Senecio*
Compact sh; 1.5-2 m.

34139 *Alchemilla orbic.*
Subrep.

Par. de Guasca, $\pm 11,300$ ft. (3450 m).
woods

= Alston 7453

= Alston 7486

open

$\pm 11,500$ ft. (3500 m)

Eup. *basilica* *peruviana*
is small tree Eup.

34134?

34135 m
 $\pm 11,400$ ft. (west side)

3450 m
 $\pm 11,300$ ft. (east side)

- 34123 moss
on trees
- 34124 *Oryopteris furelei*
- 34125 "
- 34126 *Polypodium*
Ep.
- 34127 *Cestrum*
S 1-2 m; cor. y.
- 34128 *Vicia*
Cr. h, ± 15 cm; fls. pinkish blue
- 34129 *Carex*
- 34130 Lichen
On rocky bank
- 34131 *Werneria*
Caespitulosus fls. on ground; rays white
- 34132 *Paspalum* un-1c
- 34133 *Stachys* *Wimmeria* 7/29
Cor. blue
- 34134 Eup.
Sh. ± 1.5 m (compact) (old)
- 34135 *Vaccinium*
S ± 2 m; cor. white
- 34136 Grass
- 34137 *Espeletia*
Ray y; fl. sessile
- 34138 *Senecio*
Compact sh; 1.5-2 m.
- 34139 *Alchemilla orbic.*
Subsp.

PLANTS OF PERU

vitaminosa, 90 cm. high; /
white.
On ridge

un-1c

(3450 m).
Par. de Guasca, $\pm 11,300$ ft. woods

3/12

= Alston 7453

= Alston 7486

open

 $\pm 11,500$ ft. (3500 m)

3425 m
 $\pm 11,400$ ft. (wet side)
3450 m
 $\pm 11,300$ ft. (east side)

- 34140 ~~Erica~~ *Hebe*
Compound sh. ± 2.2 m.
- 34141 *Polytrichum*
On soil
- 34142 *Vaccinium*
Low S
- 34143 *Alchemilla*
Spreading h. \pm woody
- 34144 Moss
On soil.
- 34145 Grass
- 34146 *Geranium cucullatum*
Per. herb.; wet pi.
- 34147 *Alchem. aphanes*
- 34148 *Paep.*
Lvs. smooth. Caesp.
- 34149 *Euph.*
Comp. shrub 2-2.5 m.; Rays wh.
- 34150 *Senecio forsteri*
Rays deep pink.
- 34151 *Diplostegia*
S; Rays lavender
- 34152 *Ranunc.*
Stemle
- 34153 *Puya*
- 34154 *Bomarea*
Seg. red. suberect herb
- 34155 *Veronica*
Cv. bright blue
- 34156 *Euph. Thib.*
S 2.5-3 m, elong. br.

u-K

u-K

u-K

Ph 81

Par. de Guasea $\pm 11,300$ ft. woods (east side)

3/12

open

woods

open

 ± 10800 ft. ~~woods~~

marsh

open (3475-3566 m) Ph.
11400-11700 ftwoods $\pm 11,300$ ft (3450 m)Los Gages, ± 10700 ft marsh in open

woods

- 34157 *Senecio*
wv
- 34158 *Oxalis* un-11
Suc. subsc. H; pet. y
- 34159 *Hydrocotyle*
HV
- 34160 *Liabum*
HV; rays bright y un-11
- 34161 *Polystichum*
- 34162 *Luzula*
- 34163 *Begonia*
Suc. H; pet. pi.
- 34164 *Stelis*
Ep.; per. y-g
- 34165 *Anthurium*
Ter.; subscand.
- 34166 *Marchantia*
- 34167 *Peperomia*
Efr
- 34168 *Bambusa*
Suberect, ~~bran~~ ± 2 m, branches slightly drooping
- 34169 *Clusia*
T 15-20 m; fls. green y
- 34170 *Eppaltea argentea*
y; lvs. silvery white.
- 34171 *Polygonum*
- 34172 *Gross*
- 34173 *Hypemium*
S^h 20-50 cm; pet y

Los ^{La} Agues, ± 10700 ft. Woods along
stream

3/12

= alt. 7448

clearing of a field

woods along stream

edge of falls

open

open bush

- 34174 *Miconia*
Compact S, ± 2 m; pet. wh
- 34175 *Melast.*
S; pet. rich pi.
- 34176 *Senecio*
Compact S ± 1 m; inf. y
- 34177 *Melast.*
S 50-100 cm; pet. purpl., anthers y
- 34178 *Hypericum*
S 20-50 cm; pet. y
- 34179 *Thib.*
3 $\frac{2}{3}$ -5 m, elong. br.; cor. fr; whitish at apex
- 34180 *Bidens*
WV; rays y
- 34181 *Castilleja*
Br. bright red; 8 ~~to~~ 40-70 cm
- 34182 *Lisium*
WV; rays y
- 34183 *Hypericum*
S 1-1.5 m; pet y
- 34184 *Acaena*
S, spreading on ground
- 34185 *Hypericum*
Erect S, 30-50 cm; stems obr. erect; pet. y
- 34186 *Eup.*
Slender S, $\frac{1}{2}$ 1-1.2 m; fls. whitish? (old)
- 34187 *Elaph.*
on shaded bank
- 34188 *Gaultheria*
S ± 80 cm, elong. subprostr. fr.; fr. black
- 34189 *Lobelia*
Slender h, up to 1 m high; cor. blue
- 34190 *Senecio verticillata*
Er. S 35-50 cm.; florets yellowish green

Los Lagunas, ± 10700 ft. open

3/15

Boqueron de Chipaque, ± 10700 ft. (woodside)
thickets (3250 m.)

3/16

open bank

thicket

Edge of woods

- 34191 *Eleph*
- 34192 *Lycop. jussiae*
subscandent
- 34193 *Diplostefium*
S 1-1.5 m; florets pinkish wh, rays wh
- 34194 *Isoperoneles*
S or sm. t 2.5-~~3~~ 3.5 m; pet. wh.
- 34195 *Werneriina Tomelura*
T 3-4 m
- 34196 *Eup. crassifol.*
S 1.7-2.5 m; florets & styles wh.
- 34197 *Mouninga*
Er. S 1.1-1.2 m; pet. deep blue
- 34198 *Vicia*
Pet. blue; subperist. limb.
- 34199 *Ancytophyllum*
Er. S, 80-120 cm; cor. wh.
- 34200 *Befaria* "Anguicho"
S 30-70 cm; cor. bright r, paler at apex
- 34201 *Boneria*
Pl. sup.; elong br.; cor. wh.
- 34202 *Carex*
- 34203 *Stachys*
H subscandent
fl. br.; cor. blue
- 34204 *Melast*
S \pm 50 cm; pet. deep pi.
- 34205 *Eup.*
S \pm 1 m; inf. wh.
- 34206 *Cestrum brevif.*
S 30-60 cm; fls. cor. pinkish wh, ~~pinkish~~ streaked
- 34207 *Grass*

Boqueron de Chipaque, ^{1500 m!} ± 10300 ft.
open bank

3/16

open

thickets

open
thickets
~~th~~

open

thickets

open hillside

thickets

open

34208 *Luzula*34209 *Baccharis*34210 *Espeletia*

Stems up to 20 cm; rays y

34211 *Senecio*Compact S ± 1.5 m; infl. greenish34212 *Baccharis*

S

34213 *Ranunculus*

Pet. y

34214 *Alchemilla aphanoclas*34215 *Sisyrinchium*

Per. y

34216 *Puya*Loz ± 30 cm; culms ± 60 cm.34217 *Cestrum*

Sgmt. 2.5-3 m; cor. blackish

34218 *Marchantia*34219 *Scleria*34220 *Grass*34221 *Pappia*H ± 50 cm.34222 *Opuntia*

Ter; seg. pinkish wh; col. pi.

34223 *Momina*

S 40-60 cm; pet. dull blue

34224 *Grass* ± 1.5 m; infl. pinkish red(3150 m).
Boqueron de Clifague, ± 10300 ft.
open bank

516

+ open

marsh

open

thickets

~~Chusquea~~ open; Clusia (1530 m)
~~W. 1000~~

Roadside ditch

open bank

34225 *Corchorus*H \pm 40 cm; per. wh.34226 *Thick.*

S 1-1.5 m; cor. r, lobes pink

34227 *Salvinia filicoides*34228 *Dryopteris opposita* (Vahl) Wrt.34229 *Jussiaea*34230 *Siphocampylus*

H 25-40 cm; cor. r.

34231 *Grass*

(common here)

34232 *Licaniastrum*

cor. blue

34233 *Eup.*S \pm 30 cm; flowers pink34234 *Acalypha*

Sun T.

34235 *Uncaria*

T 3-4 m; pet. wh.

34236 *Peperomia*

On bank

34237 *Peperomia*

Do. similar

34238 *Peperomia*

On branches

34239 *Casuarina*

On wet bank

34240 *Henriettella*

Tree 3-4 m; pet. wh.

34241 *Scleria*

Cund. Meta: Huatac

open

3/16

ditch

partially shaded bank

(Cund. W)

open

Piqueral 1000 m forested valley

Meta: 20 km. So. of Villavicencio \pm 500 m.
dense palm jungle

3/17

34242 *Tococa*

S or summit, with elong. branches; ant. infloresc.; pet. wh.

34243 *Polypod.*

on tt

34244 *Rhus*

T 3-4 m; buds greenish

34245 *Cordia nodosa* *Visamia*T 4-5 m, stem erect, ^{at top = dense} ~~thick~~ (sterile)34246 *Piper*

S usually 30-60 cm, rarely to 2 m; br. spreading

34247 *Herrenia*Summit, 3 m high; lvs at summit, fls. ^{on lower part of} ~~erect~~ stem which is ^{+ 2 cm diam.}; pet. red34248 *Piper*T 4-6 m, com. but only 1 sp. seen; ^{longest leaf = 13 in along midrib} ~~on top of~~34249 *Eleocharis*

on tt

34250 *Picramnia*T 3-4 m; st. simple 2-3 cm diam; ^{ant. infloresc.} lvs. dense; ^{infl. stem} br. orange34251 *Cassia*

S 2.5-3 m, elong. br.; pet. wh

34252 *Viola*Large tree (fallen), ^{infl. roots}34253 *Peperomia*

Dependent from branches

34254 *Peperomia*

Large tree (fallen); buds greenish-wh.

34255 *Uncaria*

T 4-5 m; pet. pi.

34256 *Gram*Stems erect ± 1 m34257 *Cyper*34258 *Sparganium*Ter. sp. light green, white in; sp. greenish
Common along this stream

3/17

Meta: 20 km SE of Villavieja

pale pi. in; ^{auth wh.} dense palm jungle

edge of jungle

dense palm jungle

marshy stream bed

- 34259 *Eucalypt*
In water &
- 34260 *Enicost*
do
- 34261 *Acanth*
In water
- 34262 *Cladonia*
on log
- 34263 *Moss*
do
- 34264 *Moss*
do
- 34265 *Pithecel.*
T \pm 10 m; ~~calyx~~ cor & stam. pi.
- 34266 *Philodendron palmatum*
Climbing on trees; fruit wine-col.
- 34267 *Palm*
Trunk straight, ²⁰⁻²⁵ 20 m, 15-20 cm diam.
- 34268 *Pandanus*
WV; fr. deep r.
- 34269 *Meli?*
T 10-12 m, fr. only
- 34270 *Palm*
See Separate Fruit Collection Fruit Sat.
Acaulescent; inf. at base; lvs 4 m long, pet. 1.5 mm
- 34271 *Dussia*
S \pm 2.3 m; with slender trunk & div. br.
- 34272 *Rub.*
S or SW T
- 34273 *Aplousis*
S \pm 1-1.5 m; br. r, fls. 7; fl. bright blue
- 34274 *Chamaedorea*
T slender, \pm 1.5 m; fr. profl.
- 34275 *Palm*
See Separate Fruit Collection
T straight \pm 6 m high

Meta: 20 km SE Villavieja to 00 m.
Along sandy stream bed

8/7

stream bank in jungle
palm jungle

- 34276 Cyper.
 34277 Ischnop
 H, st. ± 1 m; per. wh.
 34278 Uclase.
 S, along. br.; pet. wh., fr. purp
 34279 Thunberg
 On log; pinkish red.
 34280 Pittoscel. cuneif.
 Vine? Fr. on ~~the~~ stem
 34281 Bertia Bertia
 Sm t; fr. black; buds cream
 34282 Moss
 on wet log
 34283 Polyp.
 on t
 34284 Olyra
 1-1.2 m
 34285 Phil.
 Ep.; spathe red lower $\frac{1}{2}$, pinkish wh up.
 34286 Selagin, Hooker (1. best)
 Ter. (very rare) Very cool. at Fuzun?
 34287 Polypod.
 on t. un-K
 34288 Xanthos. dilacerata
 Ep
 34289 Piper
 S 1-1.5 m.
 34290 Renealmium
 Acaul.; infl. at base, fr. r., per y; ^{lvs distinct} stem ± 1.5 m.
 34291 Uclase
 H; pet pi
 34292 Misc. Scroph.
 T 7-9 m;

Note: ± 20 km 20 Villavieja
 palm jungle

3/17

Edge of jungle.

34293 *Muc. albicans*

T

34294 *Apor.*

WV; fr. only

34295 *Nimrod colombiana*

WV

34296 *Siparuna*34297 *Eriozema* single.

Br. subsp.; fls. y

34298 *Hirtella*

T

34299 *Myrt.*T \pm 9m34300 *Sap.*

T 6-8m

34301 *Euphorbia*

T 5-8m

34302 *Rap.*

T fr. w/ fr. hump

34303 *Dicler.*

WV

34304 *Clitoria*

T 8-10m

34305 *Bursera*

T

34306 *Prinbristylis*

muddy shore of pool

34307 *Utricularia*34308 *Galactia*

st purp, heel pinkish

34309 *Nyct.*

at pinkish red

20 Km SE of Villavieja; ^{edge of} ~~the~~ jungle

3/17

Erie Blue

edge of jungle

Erie Blue

llano

edge of woods

llanos

34310 *Panicum*34311 *Andropogon*34312 *Comm.*
*Gram.*34313 *Xyris*34314 *Rub. Lycop.*Small, thick rootstock; ~~sp. wh.~~ *Polypogon*34315 *Chenopod.*

St 50 cm.; fls. y

34316 *Gnaphalium*

Sup. spreading br.; fls. y (viscous)

34317 *Leg.*

Sup. i fls. y

34318 *Myrt.*

St 30-50 cm; cr. wh

34319 *Grass*

34320 "

34321 "

34322 *Trachypogon?*34323 *Grass*34324 *Polygala*34325 *Eriosema*

cr. y

34326 *Eup.*

Ruf. pi.

20 Km. S.E. of Villavieja, *Lauro*

3/17

*Bur.**Bur.*

- 34327 Phas.
St. rep.; pedicels erect; fls. - purple & green
- 34328 Ananthe
Infl. wh.
- 34329 Soleria
- 34330 Ruellia
Cr. pink blm
- 34331 Dichromum
Br. wh. at base
- 34332 Zornia
Pet 4
- 34333 Jacaranda
T; fls. blm (or ground)
- 34334 Orch.
Ep.
- 34335 Xass
- 34336 Aroc.
Ep. (more slender?)
- 34337 Clusia
T 4-5m; fr. light gr.; seeds red
- 34338 ~~Pachystima~~ ~~sub.~~
So. ant; fl. purple-blush
- 34339 Saccoloma
- 34340 Vismia
T 4-5m
- 34341 Chanisosa
Inf V; infl. greenish
- 34242 ~~Coccoloba~~
T 3-4m; pet. bright
- 34343 Chamuf.
St 1.5m; pet. light y; apex deep
up to 2m purple.

± 20 Km S of Villavieja Flamingo

3/17

Ben

palm jungle

Villavieja: roadside thicket, 5-10 km
edge of jungle ^{or city}

3/18

~~Villavieja: roadside thicket~~

5/18

34344 *Bidens*

HV; rays bright y

34345 *Trichanthes gigantea*T 6-8 m; cor. ~~yellow~~, pistil yel34346 *Stigmaph*

WV; pet. y

34347 *Cestrum*

Shrub to 3-4 m; cor. greenish

34348 ~~But~~ *Hamelia*

Sup. V; cor. w

34349 *Cordia*

Corolla y

34350 *Vernonia*

Suber. herb; fls w

34351 *Brownea*T \pm 4 m; pet. bright r34352 *Wassery*

T; Bracts r

34353 *Heliconia*Stem \pm 2.5 m; br. r, fr. y34354 *Acauth*

Sup. br. 1.2-1.8 m; cor. wh, purplish in

34355 *Justicia*

H 40-50 cm; cor. wh

34356 *Casaria*

Shrub, elong br; pet w

34357 *Piper*

much-br. sh 2-2.2 m

34358 *Piscinia*

HV; cor. w, green at base

34359 *Heliconia*H \pm 3 m; br. r, ~~fr.~~ fr. gr., wh apy34360 *Rhaz.*

HV; pet. y. g

Vilavicaensis: ^{valley} thicket, 5-10 m ⁸⁵ _{cm}

3/18

~~no~~ roadside in

thicket

field

thicket

Pl 83

Bee

34361 *Aphelandra*
H 4.80-1 m; cor. bright r

34362 *Ipomoea*
H V; cor. pi.

34363 ~~Cassia~~ *Chamaefistula*
Subscand., suff. herb, \pm 3 m; sepals green; pet. y

34364 *Jaquimonia*?
H V. Cor. wh

34365 *Amar.*
H V; suff. greenish

34366 *Psych.*
S 2.5-3 m; branch infl. o cor. r; calyx bright y

34367 *Scroph.*

34368 d "

Ran.

34369 "

"

34370 "

"

34371 *Gum.*

"

34372 *Samarangia*

34373 *Aeschyl.*
Suff H; pet y

34374 ~~Cassia~~ *Panicum*

34375 *Erdia*

Sh, St erect, \pm 2 m; trunk greenish

34376 *Passiflora*
W V; fr. red

34377 *Mendocinia*
W V; cor. r.

Vellaviscus; washed *Chilodactylus*
D. E. of river

3/18

Along Rio Ocoa

Sandy ~~stream~~ ^{edges of river}

rocky river bed

wooded edge of river

34378 *Delonix*34379 *Cestrum*

S or sm t, 2.5-3m; fr. black, lustrous

34380 *Cordia nodosa*

S, elong. fr.; fr. wh

34381 *Vismia*

sm t; pet 49 out. wh in

34382 *Tupa*

T 4-5m; st. w

34383 *Mimosa*

Surf. vine; sterile

34384 *Erechtites*

H

34385 *Hibiscus*

S, ± 1m; pet. deep pi.

34386 *Pavonia*

WV, sterile

34387 *Sipanea*

S ± 3-4m, elong fr

34388 *Psych. bracteata*

S or sm t 3-4m; fr. light blue

34389 *Smilax*

WV

34390 *Alchornea*

T 6-7m.

34391 *Tetrapteris*

WV; pet. y

34392 *Sol? Styrax?*

?

34393 *Cyrtus perup*34394 " *Chloranthus*

= Alcat. Río Ocoa wooded edge of river

3/18

= Alcat. 7/16/13

rocky stream bottom

wooded edge of river

woods

A

wooded edge of river

rocky stream bed

- 34395 *Oryzopsis*
 34396 *Paspalum*
 34397 Grass
 34398 *Heliconia* *renif.*
 In stream
 34399 Euph.
 H
 34400 *Calopogon* *numm.*
 HV; fls. blue
 34401 *Mollugo* *vert.*
 34402 *Ancilema*
 Per. wh.
 34403 *Jussiaea*
 Sup. h. 1-1.2 m; fls. y.
 34404 *Jussiaea*
 Sup. h., up to 1 m; fls. y.
 34405 *Elodea*
 Per. w.
 34406 *Elodea*.
 34407 *Pennisetum*
 Infl. at base; leafy stem 2.2 m; fr. r.
 34408 Euph.
 Sup. h. 40-50 m; florets wh.
 34409 *Piptadenia*
 T 6-7 m; cor. gr., stam. red
 34410 Grass
 34411 Apoc.
 HV, Cor. wh.

Rio O. . . , near Villavieja; rocky stream bed

3/78

thickets

rocky stream bed

Villavicencio; 5-10 km o.e. of city
 marshy ground

floating in pool

muddy edge of pool.

Rio Guatequia: ~~stream~~ ^{river} bed

edge of river

- 34412 *Cyperus*
Heads deep brown
- 34413 ~~*Hyptis*~~ *Cyperus*
H \pm 1 m; cor. deep pi.
- 34414 *Malv.*
2-2.2 m.
Coarse herb; lvs at top; infl. on main stem; pet. r.
- 34415 *Peirainisia*
S 2-2.2 m; pet. y
- 34416 *Plum*
HV; pet. yish-pi
- 34417 *Acalypha cordata*
T 8-9 m; infl. y
- 34418 *Passifl. acutellii*
HV
- 34419 *Piper flavescens*
S \pm 1.8 m.
- 34420 *Euph. alternatum*
S \pm 1 m.
- 34421 *Epidendrum*
Ter; km. pi.
- 34422 *Moss*
On wet bank
- 34423 *Kyllinga*
- 34424 *Centropogon*
H \pm 60 cm; cor. pi
- 34425 *Sol.*
S \pm 30 cm.
- 34426 *Mikania*
WV
- 34427 *Cissus*
HV; infl. red
- 34428 *Vernonia*
WV

Rio Guatiquia: stream bed

3/18

edge of river

woods along river

near edge of river bed

woods along river

un

Bm

- 34429 Comp.
Coarse h; ~~± 2.5 m~~ ± 2.2 m; rays deep pi.
- 34430 Guarian
H V; fr. long-dependent
- 34431 Dryopteris opposita
- 34432 Cyperus
- 34433 Arac.
Ter.; spathe green; spadix pi
- 34434 Hemiteles
Acaulescent; fr. 2-3 m with ~~stipe~~ stipe
- 34435 Tielandria
Ep. h.
- 34436 Begonia
up to 50 cm
Suc. th; pet. wh
- 34437 Grass
Up to 2 m high
- 34438 Xylophora
Per. W
- 34439 Psittia
1.8-9 m; cor. pure wh
- 34440 Melast. (Chilomen)
S ± 2 m; pet. wh
- 34441 Salacia
Tree; infl. grayish w
- 34442 Vernonia
Suf herb ~~± 2 m~~ 1.5-2.5 m; florets pi
- 34443 Crotalaria
Suf herb; ± 50 cm; pet. light y, streaked with red
- 34444 Cassia
Suf herb ± 60 cm; pet. bright y
- 34445 Passifl. maliformis
H V; exocarp of fr. hard

Rio Guatoguina; woods along river

3/18

Muddy bed of river

Woods along river

Ren

Ben

rocky stream bed

Vulcanic area; the field

3/19

thickets

- 34446 *Urvillea*
HV; fls. wh, fr. greenish
- 34447 *Dactyloctenium*
HV; buds pinkish blue
- 34448 *Eup.*
style pink.
- 34449 *Carica*
Pl. ± 1.5 m; fls. greenish y
- 34450 *Eup.*
Anthers & styles light pink.
- 34451 *Machaonia*
Shrub, 2.5-3 m, subsc., finely br.
- 34452 *Croton*
H; fls. wh
- 34453 *Xanthosoma*
Ep
- 34454 *Dioscorea*
HV (sterile)
- 34455 *Cuphea*
H; pet. pale pink.
- 34456 *Acalypha*
T 6-8 m
- 34457 *Sesuvium*
W
- 34458 *Paspalum daniellii*?
HV
- 34459 *Inga guatemalensis*
T 10-12 m; ~~shrub~~ cor. wh
- 34460 *Phurralia*
H; cor. greenish y
- 34461 *Helicteres*
S; fls. red
- 34462 *Clidanthum*
S, 2.5-3 m; inf. wh

3/19

Villavicencio: *tristis*

woods along
El Estero Cañabrava;

field

woods along H. Can.

Bm

34463 Piper

S 2.5-3m.

34464 Ouratea

T 7-8m; pet. y

34465 Epid.

Ep.

34466 Seijania

Inf. vine; pet. wh.

34467 Coccoloba

S n sm t.

34468 Ques.

H V; an. y

34469 Cuscut.

H V, Fr. sep.

34470 Clammyf.

T \pm 3m; pet. y

34471 Paullinia

seaf. v

34472 Piper

S n sm t, \pm 3m.

34473 Comp.

S 2-2.5m; rays y

34474 Paullinia

W V; fls. wh.

34475 Mim.?

Tree 6-8m; sterile

34476 Crot.

S 2-2.2m; pet wh

34477 Strobil. cernua

H 1.5-2m; br. gr. prop, yish dist.

34478 Phytolacca

H 1-1.3m; fls. wh.; br. inf. pi

34479 Wissadula

Suf h \pm 1m; pet. light y

See Separate Fruit Collection)

Ren

un

Villar.: woods along R. Canabana

3/19

Rio Guatiquia; wooded edge of rain

34480 *Caryopoma*
H V cor. gr.

34481 *Grass*

34482 *Leianthus*

H 80-100 cm; cor. yish gr

34483 *Adelmaria floribunda*
Sm 2-3 m

34484 *Paullinia linspide*
Inf. V; pet. wh.

34485 *Heliconia* br. y, pink at base; fruit blue
H; peduncles at base (ground), bearing 1 leaf; main lvs with pet. ± 1.8 m.

34486 *Apro*
H V; cor. wh

34487 *Serpentaria*
W V; pet wh

34488 *Separuna*
S along br.

34489 *Aphelandra tetrag.*
H ± 60 cm; cor. r.

34490 *Phyllanthus*

34491 *Passifl. auriculata*
H V; sep. y pet w

34492 ~~*Couroupita*~~ *Alseodaphne*

34493 *Pityrogramma calandulana*
T 8-10 m; pet. y

34494 *Miconia*

Sm t, 3-4 m; pet w

34495 *Abol.*

34496 *Heliconia*
T fr. black

Pl. ± 2.1 m; bracts deep red; lvs poor

Rio Gualeguia: wooded banks of river

open bank

wooded banks

3/19

- 34497 *Costus*
Pl. ± 3 m.; br. o per. r.
- 34498 *Dimerocostus*
Pl. 2.5-3 m.; per. wh.
- 34499 *Nyptis*
Cr. wh.; subfrut h.
- 34500 *Eleocharis*
- 34501 *Aeschynomene*
Sup h., ± 1 m.; pet y
- 34502 *Nyptis*
H. on wh.
- 34503 ~~*Eupatorium*~~ *Polygonum*
~~infl. greenish wh~~ H; fls. greenish wh
- 34504 Sol.
Shrub ± 60 cm; lvs. dimorphic; cr. blm; anthers y
- 34505 *Panicum*
- 34506 *Isoloma* 1 to Blm!
H.; cr. bright r
- 34507 *Lam.* Ph 88 Ph (+)
J in fruit. Give oil
- 34508 *Ipomoea* u
HV; cor. wh.
- 34509 *Stylosanthes*
H up to 1 m; pet y
- 34510 *Dioscorea*
H ± 60 cm;
- 34511 ?
High-climbing WV; lvs not seen; cor pinkish white
- 34512 *Lupinus*
H ± 60 cm, branched from base; st. purple; leaf nitid
- 34513 *Cordia*
S or sub-t. trunk ± 1 m high, 10 cm. diam; crown rounded cor. white

Rio Zualiquia, wooded banks

3/19

in mud, river bed

rocky stream bed

in mud, river bed

wooded river banks

Buenavista: open bank

Villavieja

Buenavista: thicket

open bank

woods

East from Boqueron de Chipaque; open ²⁹⁰⁰ ~~9600~~ 10,300 ft.

3/20

- 34514 *Psoralea*
S 40-50 cm; fls. deep blue
- 34515 *Lupinus*
Suff. herb, suberect br.; fls. ~~deep~~ purp. - keel bluish
- 34516 *Valeriana*
H; flowering stem \pm 80 cm high; cor. wh
- 34517 *Paspalum*
- 34518 *Peperomia* ^{under name!}
Cesp. RA.
- 34519 *Solanum*
Repet h; cor. wh, anthers y
- 34520 *Alternanthera*
Spreading h, br. up to 1 m long; infls. greenish wh
- 34521 *Cosmop. Verbesina*
~~WV~~, Suff V; rays bright y
- 34522 *Muhlenbergia*
WV; florets whitish; styles pi.
- 34523 Umbel.
H 1-1.5 m; fls. green
- 34524 *Rubus*
WV; pet. wh.
- 34525 *Tournefortia scabra scabula*
2.5-3 m, clng br.
S ~~2-3~~ 5 m; cor. quite wh; fr. pure white
- 34526 *Cordia*
S 2-2.5 m; cor. greenish
- 34527 *Loasa* H 40-50 cm; pet. wh; acaes y, 2-branched
appendages w
- 34528 *Scroph. Lab.* ^{Ind Bm}
Cor. pi, lobes purple at base in
- 34529 Cucurb.
H ~~W~~ sterile
- 34530 *Piper*
S \pm 2.5 m

East from Boqueron de Chifogus, 10,200 ft.
thickets

open

Boqueron de Chifogus, 10,200 ft. open bank

East Cor. brought to patio of Inst. Bot.

Tolima:
Guindis trail, ^{Km 4.5} \pm 7800 ft; wooded valley
2300 m.

open

wooded valley

- 34531 *Salvia*
Slender sh along br; cor. red.
- 34532 *Valeriana*
H V; cor. wh
- 34533 *Comb.*
H V; rays bright y
- 34534 *Relbunium*
H V; fr. red
- 34535 *Delag. Lindigii* (Mn). ! acaen.
- 34536 *Begonia*
H up to 70 cm; buds pi.; pet. & wh.
- 34537 ~~*Transpala grandifolia* (Mn).~~
H V; young with greenish
- 34538 *Juncus*
- 34539 *Grass*
- 34540 *Palau*
Fruit Collection. Ph 96-98 # 2 Secreto
in MB form
- 34541 *Stellia*
Ter; sep. all light pink wh
- 34542 *Maxiclarin*
Ter; per. greenish orange, ~~stems~~ stems with red. brown
- 34543 *Polytrichum*
- 34544 *Lichen*
- 34545 *Grass*
- 34546 *Opalis*
H Prost. branches; pet y.
- 34547 *Saurauja*
T 4-5 m. trunk to 30-40 cm diam

Tolina: Hindu Highway; wooded valley

3/27

= acaen 7751

24 m
44-43 8950 ft. 7900 ft.
1 km 38, "mainly sand."

Open bank

Km 38 8950 ft. 2750 m
9000 ft.

2750 m
9000 ft open bank

- 34548 *Reynieria*?
T 4-6 m; calyx green gr.
- 34549 *Grass*
- 34550 *Euph. paniculatum*
Suff. H up to 20 cm; inf. wh.
- 34551 *Oxalis*
Ter; fr. or.
- 34552 *Vacc.*
Shrubby, suff. br.; cor. wh.; inf. fr. umbels
- 34553 *Polytrichum*
- 34554 *Epilobium*
Suff. herb; pet. pink
- 34555 *Rosa*
on bank
- 34556 *Lichen*
- "
- 34557 *Grass*
- 34558 *Phytol.*
H up to 40 cm; inf. rich pi.
- 34559 *Vac.*
Low spreading shr; cor. wh.
- 34560 *Euph.*
S ± 80 cm; inf. greenish wh.
- 34561 *Salvia*
Cor. dup. red?
- 34562 *Klaprothia*
Suff. H up to 1 m; pet wh.
- 34563 *Ribes*
S ± 1 m
- 34564 *Caryoph.*
Scand. hr.

Toluca : Amador's Highway, ^{open bank} ± 9000 ft.

3/27

10200 ft.

Ber

- 34565 Begonia
Succ. h., pet. bright r
- 34566 Moss
on soil
- 34567 Acaul
HV
- 34568 Gaueh.
Succ.
- 34569 Hydrocotyle
HV
- 34570 Lomaria
#
- 34571 Pilea
Succ. h., woody at base ^{to 1.5} m
- 34572 Arch.
Ter. seg. pinkish red; col. green at apex
- 34573 Opalis emag.
Succ. herb, elong br; pet. ~~yellow~~
- 34574 Sphagnum
wet bank
- 34575 Moss
" "
- 34576 Polypodium mitten?
on tr.
- 34577 Siegesbeckia
H \pm 40 cm; florets y
- 34578 ~~Coccoloba~~ Miconia
WV bud greenish y; pet. o sty light pi
- 34579 Hib.
S, elong branch; br. ^{deep} pink; cor ~~red~~ red(?)
- 34580 Miconia
WV
- 34581 Miconia
For compact tr \pm 2 m; pet. white, deep y. pet

Tollina: Guerrero Highway, 10200 ft.
open

3427

thickets

open bank

Boqueron del Chimil 10500-11000 ft.
(3500 - 3250 m.)

34582 *Carex*34583 *Hesperomelis*

Compact S. 1.5-2 m

34584 *Rubus*

wv; pet w

34585 *Bouan*H. ^{sub} pet. with red out, pale in; pet light red ^{green-tinted dist.} ^{with a few fruit to show.} ^{anther. also. cor.} ^{yellow}34586 *Och.*

Eph. per. with pi

34587 *Och. Stelis*

Eph. per. fruits y; in very dense clump

34588 *Stelis*

Eph; per. with y

34589 *Vae.*

S up 2.5 m; much-branched branch

34590 *Cornu. Crepis*

Low H; rays y

34591 *Hydroc. grossul.*

H V

34592 *Soroph.*

Cor. bl

34593 *Och.*Eph.; fresh red, ~~reddish~~ spotted deeper red out34594 *Sol.*

Pow sh, suffr br; cor. w, anther y

34595 *Regonia*

Suff. herb, branches succ., fls. wh

34596 *Stellaria*

H V pet wh

34597 *Rumex*

Refined h; fls y

34598 *Och.*

Eph; per. deep red

Bog. del Quindío 10800-11000 ft.

5/27

34599 Moss

Roots on 34598

34600 Puccinia

S \pm 50 cm on dec. log; ~~fr~~ fls r.

34601 Carex pilch.

34602 Luss

34603 Urtic.

Ep. per. ~~g~~ y-g

34604 Bromarea

H V Sep or r. pet y, orange only, outside tan. apex, unspike

34605 Jugula

34606 Scirpus

forming a dense mat

34607 Gal

Ep. fr. perhaps = stem

34608 Anthracium Hypnum

Ep. on tt.

34609 Anthracium

Ep

34610 Thib

S elong br. cor. r-l

34611 ~~Cornuta~~ Volcanaria

WV

34612 Bromarea Gesner.

Suf h, on dec. log; br, caly & cor r.

34613 Rubus

H WV; pet wh. fls. dark

34614 Epipendrum

Ep; sep. light y, red-tinged; cal purp, green abet

34615 Mikania

WV fruit

Bog. del Quindío 10800-11000 ft.

3/27

34616 *Monarda*

Floating in pool

34617 *Epil. fimbriatum*

T. 1 m; sep. light pi, purple - stamens

34618 *Centropogon*Erect with erect branches ± 1 m. cor. ~~gr.~~ ^{int, gr - wh in} strong petal. ^{adv}34619 *Bomarea*

V; buds red.

34620 *Dioscorea*

H V

coll. G. Valera
to 462934621 *Begonia*34622 *Uelast*

Sh 1.5 m; pet. wh, pituized; anthers green

34623 *Begonia*

Sep. succ h.; pet. deep pi-red

34624 *Lichen*

For on TT

34625 *Parnip.*Tuber gr., sep. pi. ~~TT~~ W V34626 *Grass*34627 ~~Carex~~ *Rubus*

W. V.

in use for K.C.

34628 *Rub.*

T 2-3 m; cor. wh.

34629 *Apro.*?

H V

34630 *Polythrid*

Rep. on bank above bank

34631

Polyth.
on bank34632 *Grass*

Bog. del Gumbi

10500 - 11000 ft

3/27

3250 m.

just below

10700 ft. open bank

34633 *Asplenium phlegmaria* (Max.) Nutt.

34634 Vac.

34635 *Gesneria*

Cor. r; sep. up to 60 cm

34636 *Asplenium*Sep. rich pi, col. gr, y after. Lvs. $\frac{1}{2}$ to 1 m34637 *Gesneria*34638 *Lycopodium reflexum*34639 *Centropogon*S ~~to~~ ± 1.5 m; cor. r., lobes yish34640 *Gaillardia*

Low s

34641 *Polypodium* Elaph.34642 *Momordica*

S 1.5-2 m; sep. deep blue

34643 *Palicourea*S ± 2 m; cor. rich blue34644 *Pilea*

Inc. H.

34645 *Oreopanax*

8 in. L? young sterile plant, with cr. st. lobes yish

34646 *Hydrocotyle* umb.

H.V.; infl. gr.

34647 *Rynchospora*34648 *Elaphoglossum*

Lvs.

34649 *Epidendrum*

Ter.; 5 sep. light y, pinkish at base; infl. light y, with 2 red spots in; cor. pi -

Chiriquí Highway, just below Doña Juana, ^{3250 m.} 10200 ft.
open bank

3/27

^{2450 m.}
 ± 8000 ft.
open bankopen bank ± 9000 ft.

3/28

to

^{2900-3000 m.}

dense for. 9500-9900

- 34650 *Begonia*
 Suc h, sup. below, to 60 cm;
- 34651 *Mexanema*
 T \pm 3 m; pet. rich purple; anth. y
- 34652 *Wernianema*
 T; less from young, sterile plant.
- 34653 *Oreopanax*
 Terrestrial, bushy at summit, \pm 2.5 m.
- 34654 *Elaph.*
 On tree
- 34655 *Rub. - Psychotria* = one of 3/27
 Compact S, \pm 50 cm; cor. wh.
- 34656 *Anthurin*
 Ep.
- 34657 *Thib.*
 S, elong br. cor. red prox, wh dist-
- 34658 *Polypodium*
 S 2-2.5 m; ray y
- 34659 *Pilea* 3V col
 Suc. H. \pm 1.8 m, under branches
- 34660 *Gunnera*
 Coars H, \pm sup.; infl to 40 cm long.
- 34661 *Alchemilla orbiculata*
- 34662 " *aphanoides*
- 34663 *Pilea*
 Suc (V)
- 34664 *Rhynch.*
- 34665 *Elaph.*
 Ter.
- 34666 *Tropaeolum*
 HV, no fl.

2400-4000 m.
 Grindia Highway, 9500-9900 ft.
 dense for.

3/28

Anthurium coripetense N.E. V. det. T. Croat 1990

2900 m.
 open bank 9500 ft

3150 m.
 along gulch 10300 ft.

- 34667 Moss.
 34668 Alga
 34669 Cuscut.
 Sterile HV
 34670 Moss
 on bank
 34671 Fern *Oenitidis biserialis* (Baker) Lellinger det. A.R. Smith 1978
 34672 *Alsophila*
 Caulis short; fr. ± 2.2 m.
 34673 *Rubus*
 Suf., prostr. branch
 34674 *Cardamine*
 H; pet. wh
 34675 *Alternanthera*
 H, ± 1 m; inf. wh
 34676 Lichen
 on bank
 34677 *Cladonia*
 " "
 34678 Lichen
 34679 Sol.
 S, ± 2.5 m; pet. wh
 34680 Lichen
 on bank
 34681 Lich
 " "
 34682 Polyp.
 " "
 34683 *Cyathea*
 Caulis ± 30 cm

31500 ft.
 Guindio Highway, ± 10300 ft.
 wet rocks near falls

3/28

open 3000 m.
 wet gully ± 10000 ft.

2700-3000 m.
 dense for. 9500-9900 ft.

2925 m.
 open bank ± 9600 ft.

2925 m.
 thicket 9600 ft.

gully

- 34684 *Ulex*
T; sterile
- 34685 *Aphelandra*
Stripping to ± 1.2 m; no fls.
- 34686 *Och.*
Ter. fr. only
- 34687 *Galathea gossypii*
Sh ± 2 m.
- 34688 *Spatholobus campanulata*
Small tree, common on sts. of Cali
- 34689 *Eupatorium*
Suf. herb.
- 34690 *Trifolium*
Fls. y
- 34691 *Ceropylon* Ph-
a few fr. collected; no herb. spec.
- 34692 *Ceropylon*
Many fruits collected; no herb. spec.
- 34693 *Struthanthus*
Par. sh.
- 34694 *Oreopanax*
Par. S
- 34695 ? *Ror*
T $\frac{5-8}{3-4}$ m; fr. y.
- 34696 *Brom.*
E. W.; per. blue
- 34697 *Phaseolus*
HV; fls. deep purp.
- 34698 *Polygonum acuminatum*
Cane H, elong. st. to 1.5 m. long; fls. ~~pink~~ white
- 34699 "*Cuscuta*
do; fls. pinkish white
- 34700 *Cuscuta*
Living on herbs; cor. white

Quindío Highway, gully ± 9600 ft.

3/28

2900-3000
dense for 9500-9900 ft.

dry hills near Cali

3/29

Cali (cuel.)
Quindío Highway, 10,200 ft. 8100 m.
↓
open bank.

3/30

3/27

" " *Cuscuta*
open bank, 9000 ft.
2950 m.
open hillside 2970 m.
2910 m.

Near Río Cauca, n.e. of Cali, ± 1000 m.
thickets

3/31

"Pino"

34701 Grass

34702 Malv.

Suf. ± 1 m; fls. deep r.

34703 Ynga

T ± 9 m;

34704 Ynga

T 8-9 m; stems wh.,

34705 Rub.

Erect S, 2.5 m; stem single, cauliflorous; fls. red

34706 Moss

On bank

34707 Mercurialis

T 3-4 m; pet. rich purple

34708 Sol.

20-100 cm ± 80 cm.

H. branched toward apex, branches spreading,

34709 Pilea dentata

Suc. h, st. repent at base, branches up to 40 cm high

34710 Gesner. tubulosa

H, cor. wh.

34711 Pilea pseudo-unifolia

Stem suberect ~~pro~~

34712 Conostegia

T 5-6 m; pet. wh.

34713 Diplazium

34714 Peperomia dussanii

H. repent on ground, forming dense masses in forest

34715 Moss

On lvs. of Piper

34716 Pilea pseudo-unifolia v. grandif.

Scandent on tt

34717 Peperomia ulmifolia

Ter. very suc.

Ph 117

Near Rio Cauca, u. e. of Cali, ± 1000 m

3/31

(1180 m)

Estación Olaya Herrera, 4800 ft. ~~open~~

4/2

Guatemala, 4000 ft. ~~open~~ forest

open bank

forest

R. Digna Valley

thickets

Chorrera de la Elsa, 3200 ft. (75 m)

wet rocky forest
in spray & pools

West of La Elsa; 2700 ft. (825 m) wooded gully.

- 34718 *Peperomia cordata*
Suc. ter h.
- 34719 *Valeriana scandens*
Suc, h, - v; cor. wh.
- 34720 *Pteris hirtus*
S up. to 1.5 m, very slender, much branched stem
- 34721 *Chidemia filifera*
- 34722 *Idybaanthus?*
H V
- 34723 *Piper*
S 2-2.5 m.
- 34724 *Costus*
H St \pm 1.5 m;
- 34725 *Arac.*
Ter. Spathe green lower $\frac{1}{2}$, wh. upper $\frac{1}{2}$, ^{green} base
- 34726 *Psychotria macrophylla*
H, stem suc., \pm 1 m; cor. wh.
- 34727 Moss
On lvs of 4726.
- 34728 *Tectaria pauciflora*
Rhiz. short - rather narrow
- 34729 *Guzmania*
~~St~~ S 1 m T.
- 34730 *Trich. radicans*
Raph. on bark
- 34731 *Chamaedorea*
Thrush slender, \pm 3 m h, 4-5 cm. diam; repl. ^{slight below lvs.} brown
- 34732 *Piper subamplyx.*
S \pm 2 ~~m~~ 2.5 m.
- 34733 Selag. "cortariensis" ~~cf~~ *Selaginella bombycina* Spring det?
Ter.
- 34734 *Polypodium cf. calense* (Lindl.)
Ep h.

R. Orizaba Valley, west of La Elva ⁽²⁾
densely forested gulch 2700 ft.
thickets ~~etc.~~

4/2

densely forested valley

- 34735 *Asplenium*
On T
- 34736 *Asplenium cf. wallisii*
~~As~~
- 34737 *Gurania*
length climbing
Surf. vine; cor. red.
- 34738 *Acauth.*
H; cor. white
- 34739 *Papaya* "Papayuela"; "papafula"
T, trunk ± 1.7 m; fruit bright orange fr. sep. blue lvs.
- 34740 *Chelonanthus*
Herb, up to 1 m; cor. greenish y
- 34741 *Uelast.*
H.; lvs reddish p. base., pet. wh.
- 34742 *Piper ardat. rugosa*
S 50-80 m.
- 34743 *Manettia*
Surf. vine, dependent over bank
- 34744 *Eup.*
H \pm 80-100 cm.
- 34745 *Oplaxia*
- 34746 *Besleria apillaris*
H ± 1.8 m; cor. r.
- 34747 *Acauth. just. divaricata*
H; cor. wh.; H ± 1.8 m.
- 34748 *Pilea pteropoda*
Suc herb 1-2 m; infl. white
- X 34749 *Hemietla viscosissima*
S 1.5-2 m, very viscous; pet. wh.
- 34750 *Piper angustifolium*
Much br. S 2.5-3 m.
- 34751 *Sol. inaequilatrum*
S ± 1 m; cor. w, anther y; fr. r

4/2

R. Origua Valley: densely forested valley
w. of La Elsa, 2700 ft (2)
825 m

forest, 2500 ft (3)
open bank, 2200-2400 ft (4)
670-730 m

(730 m)
forested gully, 2400 ft (5)
Río Engaña, 2200 ft. (6) densely forested
river banks

890 m
Males (also at 2200 ft)

- 34752 *Solanum pallidum*
S or sm. t.; fr. red.
- 34753 *Cuphea*
Pet. pinkish blue
- 34754 *Mimosa*
S \pm 1.8 m, with spreading branches; stamens yellow
- 34755 *Acalypha divaricata*
T 6-8 m.
- 34756 *Dichromaena* (1)
Lvs. slender
- 34757 *Dichromaena*
Lvs. broad.
- 34758 *Piper*
S \pm 2 m.
- 34759 *Cavendishia guianensis* (Quercus? gets name from this = guianensis)
Fr. deep red.
- 34760 *Aral.*?
Young sterile plant, 2.5 m, leafy at apex; stem slender
- 34761 ~~Red~~ *Sol. glabrum*
S 2 m high; cor. wh. (or yellowish?)
- 34762 ~~Diplazium~~ *Hemidictyon marginatum*
- 34763 *Paspalum*
- 34764 *Marcantha*
- 34765 *Dicranopteris* (rare!)
- 34766 *Pityrogramma schaffneri*?
- 34767 *Ditremexa*
Sf. h.; \pm 1 m; fls. y.
- 34768 *Pisidium hastatum*
H; info. y

R. Orizaba Valley; R. Engaña, 2200 ft.
densely forested river bank
open

4/2

"
densely forested river bank

Low S \pm 1.5 m; fr. red; calyx red, then
used to make off. red like pinkish wh.

La Elsa, 3000 ft. open bank

4/3

34769 *Blechnum*34770 *Dryopteris opposita* (Vahl) Urban.34771 *Nicotiana*

S ± 2.5 m.

34772 *Plum?*

T 15-20 m.

34773 *Saurauya*

T 12-15 m; pet. wh

34774 *Passifl. rubra*

H V; fr. red

34775 *Pilea maculata*

34776 Moss

on wet rock

34777 *Lesue.*

Cor lobes white, tube green; lvs pub beneath

34778 *Tab.?* *Yoda*

local herb, suberect fls. pinkish; plant viscid

34779 *Pilea hyalina*34780 " *pubescens*34781 *Arf.*

S 2.5 m; infl. wh.

34782 *Besleria bitta*

S 2-2.2 m; stem purple

34783 *Sol.?*

S 1.5-2 m; fls. pink wh; fr. red.

34784 *Lesu. anturionoides*

Coarse herb, resembles Anthurium; fls. rather old & infl. at base

34785 *Lesu.*

Suf. vine; cor. wh.

R. Origua Valley, west of La Elsa, 3000 ft. ^{(7) 900}
thicket

4/3

dense for, 2200-2600 ft. ^{(8) 900}

Shaded bank.

dense L. In spray at edge of a falls
(8a) 2400 ft.
(730 m)2000-2100 ft. (600-640 m)
Rio Blanco; rocky stream bed
(9)

thickets in stream bed

near wet stream

- 34786 *Peperomia*
Reper on old stumps.
- 34787 *Peperomia*
Do.
- 34788 *Habenaria*
Her; per. pure wh.
- 34789 *Toloma seneca* sessile in upper lobes; cor R.
H, becoming up; variable in size & habit (sup. cor. white)
- 34790 *Marcgravia* Five Blm
W V
- 34791 *Melast.* " "
- Her. t.; infl. cauliferous
- 34792 *Marant.* " "
Coarse herb
- 34793 *Heliconia* [pet. 40 cm l; blade 193 cm l; 38 cm from
infl. 72 cm. long, deflexed; bract deep r; peduncle 105 cm long]
- 34794 *Ruellia Boellmannii*
S 1.5-2 m, much branched; stems slender
- 34795 *Aplis*
Sup. l., ± 1 m; pet. y
- 34796 *Carludovica*
- 34797 *Arac. luteipes*
Sterile; scand ter. succ. l.
- 34798 *Lesum*
H; cor. purple
- 34799 Moss
on wet rocks
- 34800 *Peperomia*
Her very succ l.
- 34801 *Pilea*
- Her.
- 34802 *Selaginella novae-hollandiae* (Sw.) Spring

- R. Digua Valley; Rio Blanco, 2000-2100 ft. 4/3
(9a) thickets in stream bed
- (9b) open bank near R. Blanco
2000 ft.
- (9c) edge of forest, 625'
- margin to midrib on one side, 23 cm. on other (at widest point)
- 10 Chorrera de la Elsa, 3200 ft. (475 m)
dense forest
- in spray of falls

34803 Selag.

34804 Ruprecht. pilif.

34805 Maladra

34806 Selag. kunzeana ^{line} Ben
Coarse, up. herb, 2-2.5 m; pet. brightly

34807 Aphelandra.

H ± 40 cm; cor. bright r

34808 Peperomia

Eps. Jer.

34809 Piper

S or 8 m t ~~± 2 m~~, along br. up to 2 m long

34810 Pilea

34811 Piper

T 5-7 m.

34812 Lonicera hirsuta L.

Kuluas ! Alston

34813 Melast.

Coarse h, ± 2 m; fr. r.

34814 Cucurb.

H. V. Cor. greenish y wh.

34815 Eup.

S 2.5-3.5 m; uph wh.

34816 Rub.

T; tube & lobes cream-wh out; lobes orange in

34817 Begonia pauciflora

— pet. wh.

T, 3.5-4 m; lvs & fls. at summit; herb ± 4 cm. diam.

34818 Calliandra

Smallest t. ± 2.5 m, spreading branch; cor w, stem ^{pi}

34819 Rubus

WV; pet. wh.; fr. black

^(975 m)
R. Orjia Valley; Chorrera de La Elsa
3200 m.
in spray of falls (10)

4/3

^{3200 m.}
densely forested
fully just below falls (10)

thickets

open bank

La Elsa, dense for. 2900 ft. (880 m)

4/4

^(900 m)
La Elsa, thickets, 3000 ft.

- 34820 Begonia
Erect herb, ± 50 cm; pet. wh.
- 34821 Lichen
wet rocks
- 34822 Cyperus
- 34823 Sol. flavum
Suff. h. ± 60 cm; cor. y, fr. red.
- 34824 Lichen
On wet rock
- 34825 Pilea dulata
- 34826 Arec.
Sterile. Ter.
- 34827 Arec.
On tree
- 34828 Anthurium
Scandent on bank; sterile
- 34829 Peperomia microphylla
Report ~~Reported~~ on branches
- 34830 Peperomia
Report on branches
- 34831 Urea caracasana
Small tree; trunk ± 5 cm. diam; infl. on trunk
- 34832 Solanum ~~sinuatum~~
 ± 3 m; fr. bright red; ~~fls~~ cor. light green; ^{stem slender} cauliflous
- 34833 Anthurium
Ter.
- 34834 Trich. radicans
On bank
- 34835 Bromel.
Ter; fr.
- 34836 Bromel.
Ter. Bracts r; per. red, pi. at apex

- R. Digua Valley; La Elaa, ^{9000 ft.} 3000 ft.
open hillside
- (12) Rio Engaña, 2200 ft. (675m)
densely forested river bank

- 34837 *Lasiacis*
Fl. with elong. br. 2-2.5 m. long.
- 34838 *Cinch.*
Sp.; per. purple
- 34839 *Psallia corymbiflora*
- 34840 *Costus*
Sep. purple; cor. greenish y
- 34841 ?
Tree; buds greenish
- 34842 *Hydrocotyle*
Herb. h.
- 34843 *Acalypha*
Tree 8-10 m; infl. green
- 34844 *Polyp.*
On bank
- 34845 *Palms* (smaller than 1) + 2.2 m; then fibrous bases
8 cm diam. trunk \pm 3 m, with rings about 4 cm. apart up to 1
- 34846 *Ochr.*
Ep.; buds yellowish gr., pi. at apex
- 34847 *Pepenoma*
Ter. leaves thin!, not succ.
- 34848 *Cleome*
pet. deep r., pedicels pi.
Stem erect \pm 1-1.5 m. tall, \pm 4 cm. thick
- 34849 *Passifl. Chelidonium*
Sterile; H.V.
- 34850 *Dyplazium*
- 34851 *Pteris*
Root thick, subterranean
- 34852 *Pavonia*
Stem h; 60-1 m; pet. wh.
- 34853 *Cremosperma*
Wet bank

R. Origua Valley, Rio Engaña, 2200 ft
(12) densely forested river bank

4/4

of sheaths; leaves \pm 2.5 dm. long.
fr. black

34854 Gesner.
H; cor. tube wh, lobes blue

34855 Asplenium
Wet bank under falls

34856 Hep.
On branches

34857 ?

34858 Moss
On rock

34859 Carludovicia
Stem ± 60 cm.

34860 Columnnea cor. yellowish (? var.)
Ter. Sup. l; br. light gr; lvs. red at margin (can.)

34861 Columnnea
Ter; lvs. green beneath; bracts red; est. y

34862 Lycopodium
On ch. y

34863 Moss. coll. Dussan

34864 Peperomia
Efr.

34865 Peperomia
Efr.
Ter.

34866 Peperomia
Ter; lvs. very fleshy

34867 Peperomia
Efr.

34868 Peperomia
Efr.

34869 Ureosoma
Small tr, ± 3.5 m.

34870 Eup.
H ± 2 m; infl. white

R. Origua Valley; H. Engaña
± 2200 ft; (12)
densely forested river bank

4/4

along road (slope?)

(13) La Margarita, on R. Origua, ± 2500 m. (60 m)

34871 *Cordia* ^{ML & D. Case.}
 5-8 m T, 3.5-4 m; trunk 6 cm. diam.; fr. red.

34872 *Eucharis*
 Per. pure wh.

34873 *Gnaph.*
 Sol.
 8 ± 2 m; cor. wh.

34875 *Eup.*
 5-2.5 m; fls. & styles pi

34876 *Malv.*
 H ± 50 cm.; pet. y

34877 *Fuga*
 16-8 m; cor. greenish wh; stamens wh

34878 *Cucumb.*
 HV life fr. red

34879 *Dryopteris* (cf. *andreaea*) (Sod.) C. Chr. Blue has

34880 *Cucumb.*

34881 *Dryopteris* *pauciflora* Hieron. Blue ! Alston
 new to Col. ^{has}

34882 *Polyp.* (aff. *vacciniifolia*)
 Ref. on tt.

34883 *Adiantum* *macrophyllum* Sw. Blue has ! "

34884 *Rub.*
 Tree

34885 *Trich.* *sphaeroides* Kunze ! Alston
 on tt

34886 *Biophytum*
 Bot. pi

34887 *Adiantum* *concinnum* HB Will.

R. Dignia Valley; La Margarita, on V. Dignia
 (13) ± 2600 2500 ft. (760 m)

4/4

(14) La Elva (900 m)
 ± 3000 ft. open

4/5 -

2800 ft.

thickets

open 2500 ft (760 m)

2600 ft.

thickets 2500 ft. (760 m)

thickets dense forest (760 m)

34888 *Asplenium*34889 *Polypodium occultum* Christ !Alston "
 Ten34890 *Ruellia*

Cor. pe

34891 *Palicourea*

7.6-8 m; branches of upl. y; cor. r.

34892 *Fittouia*Lvs. strongly variegated with wh. ^{above}34893 *Centropogon*

S; cor. r.

(Dussan cor.)

34894 *Urera baccifera*

S Erect st 1-2 m; fruit pe.

34895 *Sol.*

Refert; cor. wh.; anther y

34896 *Phyllanthus*

Slender herb

34897 *Passifl. coriacea* Pers.

H V; sterile

34898 *Pavonia*

H ± 90 cm; pet. y

34899 *Lindera*

H; cor. light blue & dark blue

34900 *Nelumbo*

Pl. ± 2 m. high, br. y in lower 1/3, red rest, per. y.

34901 *Elythria*

Cor. pinkish blue

34902 *Cordia*S ± 4 m, stem 6-8 cm. diam, much br toward apex.
 Cor. wh34903 *Selaginella novae-hollandiae* (No.) Spring

Blue leaf

34904 *Peper*

L. 3 m

Rio Orquíza Valley; La Margarita on
 R. Orquíza, 2500 m. (7600 ft)

4/5

field clearing

↓ dense for.

field clearing.

dense for.

- 34905 *Palu* "Chontodora"
Fr. eaten; taste + like chestnut
T 6-7 m, trunk with many black spines; fruit on ground
- 34906 *Orch.*
Ep. (nospec.) fruits taken for Fairchild
- 34907 *Polygala*
Fls. bi.
- 34908 *Dicranopteris*
very rare; coll. by Lehman
- 34909 *Fuga*
T 5-6 m; stamens white
- 34910 *Fuga*
T 5 m; " "
- 34911 *Orch.*
Ep.
- 34912 *Brom. dryandrea*
- 34913 *Sobradia* col. wh. Rarely, perianth tube white
or stippled with deep purple at apex
Ter. 3 pet. green gr, 2 light purp., paler at base, lip wh, purple
- 34914 ?
Tree, 4-5 m; fr. red, spines and
- 34915 *Melast. quadrang.*
T, 3-4 m; pet & stamens styles purplish pi.
- 34916 *Delag.*
on bank
- 34917 *Gesner cordato-bractea*
Ter,
- 34918 *Rub?*
T 5-6 m; infl. green
- 34919 *Crossara*
T 6-7 m; ripe fruit purplish black; br. infl. white
- 34920 *Melast. cauliflora*
T 3-4 m; fr. red for pet. pinkish wh, transparent
- 34921 *Calandrinia*
Ep.; infl. deep green

R. Regina Valley, La Elsa 2900 ft. ^{0.6} (880m)

4/5-

La Margarita 2500 ft. (60m)

La Elsa, open bank (880m)

El Valle: El Salado, 3500 ft. ^{edge of forest} (1050m)

Cali - ~~Shade~~ in yard

4/7

(Mrs. Bryander's garden)

El Valle: Along highway 10-15 Km. E. of Buenaventura
edge of forest

4/12

dense forest

34922 Melast

Ter b, pet wh; fl. viscid

34923 Rynchospora

34924 Scindophyllum

T 2.5-3 m; lvs ringl. at summit

34925 Cephalaria

S 70-80 cm; br. bright red; cor. y

34926 Cyperac.

34927 Rub

T ~~6~~ 6-7 m; fl. purplish brown

34928 Melast.

Apparently a vine; this stem long-dependent from high trees

34929 ?

Parasite

34930 Anac.

Ep. Spathe light gr, spadix y-g

34931 Cucurbit.

H V, sterile

34932 Calathea?

Ep.; per. rich pi, paler at base

34933 Euphor.

Ep

34934 Aechmea

Ep.; br. bright red

34935 Philodendron

Ep.; spathe wh, greenish at base

34936 Sabicea

Br. green, fl. pi; S 2.5-3 m.

34937 Guttif.?

T

34938 Acanth

Er. S \pm 60 cm; br. gr.El Naele: Along highway 10-15 km e. of Bontate
dense forest

4/12

open swamp
dense forest

un

un

un

un

- 34939 *Melast.*
Sm. tr., with elong. br.
- 34940 *Do*?
Tree; but is it fruit or gale?
- 34941 *Arac.*
Ep.
- 34942 *Arac.*
Ep.
- 34943 *Hymenoph.*
On branches
- 34944 *Hep.*
Do
- 34945 *Pilea?* *Melast.*?
At base of tr
- 34946 *Gesner*
Ep. Cor. tube greenish wh., lobes deep pi.
- 34947 *Arac.*
Ter. Spikes grass gr., spadix purplish br.; sp. red
- 34948 *Anthur.*
Ep.; st. " " " " " "
- 34949 *Gesner. Columna*
Ter. Lvs with red spots in axils of leaves in upper half; cor. or. - r.
- 34950 *Columna*
Ter; lvs " " " " upper 2 pairs of lvs; cor. or. - red.
- 34951 *Columna*
Ter; apex & margin of lvs purplish red; cor. y
- 34952 *Brouel.*
Ep.; fls. blue, paler distally
- 34953 *Malp.*
Tree; fls. y
- 34954 *Trichomanes*
On T.
- 34955 *Thib.*
Ep. ^{along branches}; cor. red; old calyx white
↓ ? see if tree or fls?

El Valle: along highway 10-15 Km e.
of Buenaventura; dense forest

4/12

Buenaventura Bay; mangrove swamp

4/13

- 34956 ~~Maep.~~
on branches
- 34957 *Epidendrum nocturnum*
Ep.; 5 seg. light gr., lip ^(appressed) & col. wh.
- 34958 *Centria* ~~Indurata~~ ^{fls.}
Herb, repent on ground and on small tree-branches
fls. & styles white
- 34959 Maep
Tr. 3-4 m; pet. light pi. un
- 34960 Orch.
Ep. fr. only
- 34961 *Capanea* ?? See Separate Fruit Collection "Pinuel"
Tr 8-10 m; pet. wh.
- 34962 Alga?
On branches of 34959
- 34963 *Siphocampylus*
Ep.; cor. wh.
- 34964 *Pavonia*
S 3-4 m; pet. yellowish
- 34965 Piper
S 1-1.2 m., br. divar.
- 34966 *Blac.*
S 3-4 m; pet. purplish brown; fr. brown (not ripe)
- 34967 *Anthurium* ~~meandrus~~ ^{Arac.}
Scandent on trees; spathe purple, spadix wh.
- 34968 *Dimorphandra*
Tr, 12-¹⁸ m high; trunk up to 80 cm. diam; infl. whit very common
- 34969 Epid.
Ep. fr.
- 34970 *Tielaudia*
Ex Per. rich purple, whitish at base
- 34971 *Zichia*
on branches.
- 34972 Rub.
Small t. fr.

El Valle: Boventura Bay; mangrove swamp

4/13

34973 *Aech.*

Ep; per. pure wh.

34974 *Aerostichum*

Fronds 2-2.5 m. long

34975 *Carludovica*

stems wh.

Ep; leaves ~~opposite~~ in pubes clusters with flowers at base;34976 *Eleocharis*

Ep. (fruit)

34977 *Dep.*

On # 34975

34978 *Guzmania variegata*

Ep. lvs. variegated purple-green; br. red, per. pink

34979 *Anthurium*

EH; spadix purple.

34980 *Anthurium*

do do.

34981 *Anthurium*

Ep.; spathe deep gr; spadix pinkish gr.

34982 *Nelumb.*

Fr 3-4 m, with long. br.; pet. wh; aeth. 4-9

34983 *Thib.*

woody Ep, along. br.; cor. r.

34984

S, 1.5-2 m; fr. pink

34985 *Anthurium*

Ep-; spathe gr; spadix deep purple upper half, pinkish purple lower

34986 *Rub.*St 1 m, \pm 3 m; cor. green, lobes deep gr.34987 *Coussipourea*T, 3-4 m, trunk \pm 15 cm diam; fls. wh34988 *Rub.*

Ep? br. deep red

34989 *Polyg.*

On tree

El Valle: B'ventura Bay; mangrove swamp

4/13

Mangrove Swamp along lower
R. ~~Sagua~~

4/14

34990 Myrt.

34991 *Sobralia*Ep. ^{stem} 1-1.2 m. high; per. wh.34992 *Sobralia*Ep. ^{5 sep. y-g out, 2-bran in; sep} 80-100 cm.; ^{1-br. out, ~~at~~ wh o purpl. in; col.}34993 *Arac.*

Subsc. on trees; spathe of shape & color of lvs; spadix white (change fruit of 4967 to this)

34994 *Thib.*

W. Ep.; cor. red

34995 *Psychotria*

S 1.5-2.5 m; cor. wh; fr. bright blue

34996 *Gesner. communis*WV; cor ~~wh~~ ^{like} red ^{the} lobes 1 at center, y-g at rim34997 *Guzmania*S, 2-3 m; ^{stem} slender, br. spreading; cor & fr. wh.34998 *Polypodium lanawlatum*

Ref. on TT

34999 *Calathea alba*Ter; per. pure wh; lvs red den, gr. at margin ^{of purplish black ~~stem~~}35000 *Trichostema*Ter. fls. red with ^{deep green o purple above} fr. ~~den~~ ^{fr. ~~den~~ pinkish wh}35001 *Miconia theaeoides*

S 2-3 m; fr.

35002 *Melast. elongata*

Subsc. sh, long. br; fr. reddish brown

35003 *Hep.*

on br.

35004 Moss

oo

35005 *Adiantum saccolomantis*

Ter.

35006 *Philod. psychotriacifolia*

Subsc. ter herb, forming tangles; spathe green in lower 1/2, white spotted; wh. upper half.

El Valle: B'ventura Bay; mangrove swamp

4/14

El Chocó: ^{out ± 8 am.} ~~Negra~~ forest along R. San Juan

4/17

- 35007 *Pungia*
Pl. wh.; on dec. branches
- 35008 *Sauceola* ~
Suffr. herb; st erect 35-50 cm; br. r, cor y
- 35009 *Heurathia* #'
S; buds r; pet r st. pinkish
- 35010 *Cephaelis*
Er. S 80-100 cm; invol. r.
- 35011 *Adiantum* (
- 35012 *Pilea imparifolia* ~
Rep. on ground on lower part of t t
- 35013 ~~*Trichomanes*~~ *Trichomanes* (
Rep. ~~on~~ on br.
- 35014 *Rub. Psych. leucomela* 3
S or sm t, 2.5-3.5 m; cor. light y
- 35015 *Psych. guianensis* 3
T 3.5-4 m; inf. branches r; cor. bright y
- 35016 *Gesner. pseudocoma* narrow; lvs more distant at base
WV; cor. wh. out, y or r. in; = 4996, but pedicels slender, subg.
- 35017 *Asplenium tenuis*
on t t
- 35018 *Pepinaria*
Rep. on t t
- 35019 *Rub.*
Er. sh, ± 1 m high; purple fr. br.
- 35020 *Lycopodium* or orch? 1
on t t
- 35021 *Pilea crotolaria*
Ter, subrep.; hairs erect on upper leaf surface
- 35022 *Gesner.* 1
Rep. on t; br. y
- 35023 *Sclerog.*
Ter.

El Choco: Negria; forest along R. San Juan

4/17

- 35024 *Columna hirsuta* ^{claw here green} Los arbol red along ravine ^{on tip} El Chivo: Negria; forest along R. San Juan
 Ep.; cor. ^{tube} yellowish pi, lobes deep red at center
- 35025 *Peperomia*
 Repent on br; lvs fleshy, appressed to branches
- 35026 *Cephaelis* 1
 S \pm 2.5 m; br. deep pi.
- 35027 *Polypodium elongatum* ~
 Rep. on t t
- 35028 *Polypodium leptochailoides* 3
 On t; sterile
- 35029 *Selagin, haematodes* (Hump) Spring ~
 on t
- 35030 *Passiflora biflora* 2
 W.V. sterile
- 35031 *Costus*
 Er, snipe & hunk, \pm 1.5 m; br. deep r; out. per. light r, inner
- 35032 *Philodendron suborbiculatum* 1
 Rep. on t t
- 35033 *Acutum* 3
 do, Spathes grass-gr; spathe deep gr; young fr. 4-9
- 35034 *Piper*
 S 1.5-2.5 m. high
- 35035 *Columna*
 On tr; lvs. red ^{blotched} beneath in ^{calyx r, cor. y} arroyo ^{in arroyo} plain grass;
- 35036 *Isocheilus* 1
 Ep. appressed to t t; buds wh.
- 35037 *Polypodium*
 Rep. on t t (fr. in 2 rows)
- 35038 *Scroph.*
 Pros. herb; cor. wh.
- 35039 *Pilea*
 Sna. herb
- 35040 ? Smilax "Zarsaparrilla"
 W.V; stems & roots used for rheumatism

See Separate Fruit Collection.

El Chivo: Negria; forest along R. San Juan

4/17

60m
Bebedó; clearing

4/19

shaded bank

Atolagoya 60 m

4/20

- 35041 *Palicourea guianensis*
S 2.5-3.5 m; br. inf. red; cor. bright y
- 35042 *Uncaria paniculata*
T 3-4 m; pet. & st. pinkish wh.; fr. purple
- 35043 *Blabea scandens*.
WV; fr. reddish br.
- 35044 *Psychotria bracteata*
S 1.5-2 m; cor. wh; fr. light blue
- 35045 *Cyphandra tomentosa*
S; st. erect ± 1 m; br. red; cor. y
- 35046 *Faramea*
W.V; cor. wh.; fr deep r.
- 35047 *Limonium*
Low S; fr. blackish; pet, stam & sty. pi
- 35048 *Piper*
S 2-2.5 m, with long, subs. br.
- 35049 *Eschatalogramma*
Efr. On t
- 35050 *Trichomanes* ~~montanum~~
on tt.
- 35051 *Columna angusticephala*
Ser. Sep & st. ± 1 m; calyx r.; ^{cor. pinkish red; lobes or red spotted in young} lvs deep r at apex & at base
- 35052 *Dryopteris*
Ter; fronds 1.5 m. long, inch. stipe ± 75 cm
- 35053 *Aulicium*
~~Reper~~
- 35054 *Peperomia paniculata*
Efr.; lvs. slightly auc.
- 35055 *Polyph. brasiliensis* un
Ref. on tt
- 35056 *Dryopteris*
Ter.
- 35057 *Solanum*
Subs. sh; cor. wh; anther y

El Choco: Andagoya, ⁹⁰⁻¹⁰⁰ m; second growth for.

4/20

(Notes Typed)

- 35058 *Piper*
Stem br.; S 60-100 cm. rarely 25 cm
- 35059 *Clidemia cauliflora*
S 2-2.5 m; calyx cream; pet wh.; fr. r.
- 35060 *Culcitum*
- 35061 *Peperomia elongata*
Ep. succ.
- 35062 *Piper*
Shrub 25-30 cm.
- 35063 *Polyph. laevis*
Rep. on TT
- 35064 *Piper*
S 2.5-3 m -
- 35065 *Polyph. Elaph.*
Ep. stembo
- 35066 *Lib.*
Fl.; fr. wh.
- 35067 *Brom.*
Ep.; lvs in dense cluster; fr. only
- 35068 *Palu*
Tr. 3 m high, 15 cm. diam, long spines; infl. ± 30 cm. (below)
- 35069 *Cordia ~~comp.~~ ferrug.*
S stem slender, ± 2.5 m. long, branched; cor. wh.
- 35070 *Hyptis*
H \pm suff. up to 1.5 m; cor. wh.
- 35071 *Hyptis*
Slender; cor. wh
- 35072 *Nanclia*
S 2-2.5 m; cor. r.
- 35073 ~~Stachy~~ *Dichromena*
- 35074 *Stachytarpheta*
Suff. H up to 1.5 m.; cor. blue tube wh, limb blue

Andagaya: second growth for.

4/20

clearing

- 35075 *Tradescantia*
Per. wh
- 35076 ~~Philodendron~~ *Spathiphyllum*
Ter. spathe wh; spadix cream
- 35077 Lab.
H.; lvs. variegated above; cor. deep blue, lower lip pale
- 35078 *Bignonia*
Hypochlery W.V.; cor. pi., wh at base (fls. on ground)
- 35079 Gesner.
Ter; cor. y
- 35080 *Niconia*
S 2.5-3 m.; pet. o ~~stems~~ wh
- 35081 *Smilax* un
W.V.; buds greenish
- 35082 *Trichomanes*
Ter
- 35083 *Desleria*
Ep.; stems 1-1.5 m long; fl. r.; cor. y
- 35084 ~~Dryopteris~~ *Cyclodium* *Trinerve* var. *chochoense* A.R. Smith
- 35085 *Piper* un
S \pm 3 m
- 35086 *Piper*
S \pm 2.5 m
- 35087 *Arac.* un
Ter. Herb; stem \pm 30 cm; infl. drooping; ^{along with both sides} lvs. variegated
- 35088 *Anthurus*
Ep.; fr. or. spathe light g
- 35089 *Pasp. macrophylla*
Coarse erect herb, \pm 1 m; fl. w; cor. granule wh
- 35090 *Polka* *filipes*
S \pm 2-2.5 m
- 35091 *Arac. trifolius*
Ter. Spathe y, drooping; spadix green wh

Andagoya 70-100 m cleaning

8/20

dense for.
lower Andoto River 100-150 m
cleaning along stream

second growth for.

dense virgin for.

- 35092 *Cephaelis*
S 2-2.5 m; br. gr.
- 35093 *Cyclanthus*
Pet. 1.5 m long; ped. ~~± 1 m~~ 50-75 cm
- 35094 *Psychotria hirsuta*
Er. S, ⁵⁰⁻80 cm; fr. bright blue; cor. wh.
- 35095 *Bourrouma*
T ~~8~~ 8-10 m.
- 35096 *Calacthea* un
H ± 1.5 m; lvs. r. beam; per. wh
- 35097 *Palen*
Lvs 2 m. long,
- 35098 *Henriettella Chileflora*
S ± 3 m
- 35099 *Chilensis*
Sambact ± 2 m; pet. ^{plains wh; arch. light y} pi; fr. deep blue
- 35100 *Clavija*
S; stem simple, ± 2.2 m, 3 cm diam. fr. or-r.
- 35101 *Spigelia*
Hs rich pi; fr. black; H 60-80 cm.
- 35102 *Marila*
T 3-4 m; tr. simple, ± ^{8 cm} 8 cm diam; lvs or infl. at summit.
- 35103 ?
Tr. ± 4 m, sterile; lvs unimul; largest ± 80 cm long
- 35104 *Philod.*
Ep. Spathes W
- 35105 *Peperomia* un
Rep. Sp. or t
- 35106 *Gesner. hirsuta*
Ep.
- 35107 *Cissampelos* un
H V
- 35108 *Vernonia*;
WV; florets purple.

Andagoya; dense for. along lower
R. Condoto 100-150 m

4/20

2^d growth for.

- 35109 *Dioscorea*
 Ter. Pet. pi
- 35110 *Pilea*
 Suc., suber. herb, ref. at base; stems up to 40 cm
- 35111 *Philod. marginata*
 Ep.; infl. at base of lvs; spathe y
- 35112 *Philod.*
 Ep.; ~~infl.~~ infl: spathe green at base, ^{spadix} cream above
- 35113 *Philod.*
 Cf. above; infl. much smaller but in fruit! (Omitted from list)
- 35114 *Coccoloba*
 cor! y - ~~light~~ wet bank
- 35115 *Costus*
 E. H \pm 1.5 m; br. deep r.
- 35116 *Rub.*
 Slender s, up to 1 m; buds gr.-y
- 35117 *Pilea seemannii*
 Ter., suc. herb, refert at base, lax br.
- 35118 *Dioscorea*
 Subrep. ter herb; pet. pi.; lvs red ben
- 35119 *Carludovicia*
 Rocky stream bed
- 35120 *Dichorisantha*
 Ter.; base of stem long-refert
- 35121 *Piper*
 S. \pm 2 m
- 35122 *Dichromena*
- 35123 *Clitadinum* "Salvia"
 S; florets wh. Stem o lvs used as f. p.
- 35124 *Diplazium*
 out t
- 35125 *Arclit*
 Ep; per. very fleshy, ⁵ lips green, lined in with ~~red~~ red; col. y-g. ~~Pentstemon~~

Andagoya; dense for. along ^{lower} R. Condoto
 160-150 m.

4/20

along densely forested banks of
 small stream

clearing along stream

clearing

4/22

Quimbada ^{Quimbada} ^{Quimbada} Río; dense forest
 125-180 m.

- 35143 *Anthurium*
Ep. spathe deep gr. fr. brown
- 35144 *Cyper*
- 35145 *Trichomanes junceum*
- 35146 *Rub. stenosepala*
Shrub up to 80 cm; calyx with lobes white.
- 35147 *Rub. do. nympha*
H; br. green; lvs strongly bullate
- 35148 *Crematosperma*
Wet bank; cor. y
- 35149 *Trichomanes*
Ep. r. t
- 35150 *Peperomia multijolia*
do
- 35151 *Trungia*
On log; red on both sides
- 35152 *Mabea*
elongate br.
T 5-6 m; fls. y
- 35153 *Oreli.*
Ep; per. pi (young)
- 35154 *Trich.*
Ep out t
- 35155 *(Palae) Chamaedorea*
Junk 2.5-3 m; + 60 cm
Scandian; lvs + pet. + 60 cm
- 35156 *Moss*
On lvs of 5155
- 35157 - *paniculata*
Sun-tree; buds cream; fr. black
- 35158 *Phoradendron racemosa*
S 3.5 m; bud cream
- 35159 *Lococa*
S 1-1.5 m; inf. branch red; fr. deep purp.

Andagoya, Huachula Guarapo; dense for.
120-180 m on ridge

4/22

- 35160 *Piper*
Tree, 5 m high, trunk \pm 8 cm diam
- 35161 *Hep.*
Densely covering bog
- 35162 *Tamnia*
~~erect~~ *Caudex* 20 cm. high \times 4 cm. diam. Sterile
- 35163 *Myrsin*
S; fr. red
- 35164 *Oryopteris* *Thelypteris valdepirosa* (Baker) Reed
Caulis \pm 15 cm
- 35165 *Trichomanes*
Cult.
- 35166 *Nicomia*
T 3-4 m
- 35167 *Phytolacca*? "Saragosa"
W (stem only) mixed with aqueducts & used in place
of guinea; said to be very effective
- 35168 *Dich.*
Ep.; buds cream
- 35169 *Mapania*
- 35170 *Gesner*
out.
- 35171 *Dich.*? apparently
Saprophyte? leafless; ~~barren~~ fr. cream
- 35172 *Moss*
On dec. log
- 35173 *Cyba*
- 35174 *Rub*
T 3-4 m
- 35175 *Rub*
T 6-7 m; bracts cream; cor. white
- 35176 *Asplenium serratum*
Ep

Audagoya; ~~Audagoya~~ *Sumo forest*
120 m

4/22

- 35177 *Marchantia*
On dec. log.
- 35178 *Dryopteris*
Ter.; fl. white
- 35179 Moss
On dec. log
- 35180 *Rub. nigrocampa*
1.5-6 m; fr. blackish
- 35181 *Arac.*
Ter.; spathe light gr; spadix y-y
- 35182 *Guzmania pilosa*
HV sterile
- 35183 *Centropogon*
Ep. 5-5 gr.
- 35184 *Dryopteris*
Plant pink, funnel-shaped l. On dec. log
- 35185 *Dryopteris*
as above, white ben.
Plant molarogy-coccol, Ter.
- 35186 *Heliconia*
Ep. br. deep red; fr. blackish
- 35187 *Rub.*
Ep. br. light gr; Dor. tube deep pi, lobes white
- 35188 *Erythroxylon*
Ter.; per. greenish white
- 35189 *Carludovica grandis*
Ep; fr. or.; lvs arising flabellate
- 35190 *Paramecia*
S young fr. greenish white
- 35191 *Cephaelis*
cf 5092; S 2.5-3 m; cor. white
- 35192 *Cyathia squamora*
Callex \pm 30 cm long, 3.5-4 cm diam; fr. 75-90 cm
- 35193 *Rub. Coarctata alternata*
S 2.5-3 m; buds pink

Audagoya; dense for. on ridge along bluehala
400-600 ft. Guarapo
120-180 m

4/22

- 35194 *Lindsaya*
Ter.
- 35195 *Carludovica*
Ter. o Ep.
- 35196 Rub.
Suff. herb; cor. wh
- 35197 *Selagin*
On bank along stream, rather open
- 35198 *Acaath*
H ± 75 cm; cor. bright pi.
- 35199 *Isotoma longifolia*
Fls. wh.
- 35200 Verb.
HV; calyx lobes wh.
- 35201 *Gean*
WV; cor. wh
- 35202 *Solanum*
Sun. t, 3-4 m
- 35203 *Solanum*
WV; cor. wh, anthers y
- 35204 *Scleria*
~~marshy stream~~
- 35205 *Pariflora*
HV sterile
- 35206 *Celastr?*
J; fls. green y, red tinged
- 35207 *Bromelia flavo-rubra*
Ep; branches infl. r. red; fls. y
- 35208 Moss
On tt
- 35209 *Phytidophyllum*
Rph. on tt
- 35210 Arch
Ep; simple, red

Andagoya; dense forest ~~along~~ along
Cub. Guarapo 120-180 m

4/22

open bank of ~~river~~ Cub. Guarapo

Tado' 90 m" " of Rio San Juan

forest
~~marshy stream~~ along

Rio Sayguan Yacuri 200-275 m.
~~camp~~ Camp. I; in open

4/24

edge of
marshy stream ~~to~~

dense forest

✓ spot Yacuri (acc. to Brachy), the name of the stream entering S. Juan at Camp I forming valley to west of ridge on which these collections were made. Whole region called Carcoba, but check spelling

- 35211 *Dulacra atronema*
Ter; pet. pi.
- 35212 *Polypodium angustatum*
on TC
- 35213 *Mon*
on TC
- 35214 *Gesner. platyphylla*
Ter.; br. deep red.
- 35215 *Gesner.* Lvs red in upper veins
Ep.; br. red; cor. light y; lobes red in.
- 35216 *Gesner. angustifolia*
Ep; Calyx lobes greenish wh; cor. y
- 35217 *Carludovica*
Caudex. subter.; fr. deep gr.
- 35218 ?
J; fr. deep gr. Calyx & fr. green
- 35219 *Pilea antioguensis*
at base of TC
- 35220 *Anthurium*
Ep. spadix gr.
- 35221 *Islandia*
Ep.; fr. deep gr.
- 35222 ?
Last ~~ter~~ ep.?
- 35223 *Paullinia*
WV; buds gr.
- 35224 *Besleria grandiflora*
Ter. herb; Cor. mahogany-red; calyx deep red
- 35225 *Islandia papayifolia*
Ep.; br. red.
- 35226 *Bromel.?*
Ep.; br. red, yish at base; infl. covered with gelatinous org.
- 35227 *Pilea*
St. repent at base, branches lax, suberect; infl. wh.
on ground or on base of TC.

Camp. I; dense for. (

4/24

- 35228 *Diolena grandif.*
 Ter; lvs 1 ben; pet. fr. wh.
- 35229 *Gesum*
 Ep; cor. tube light pi, densely red-spotted in; lobes r. in
- 35230 *Lulaisan*
 Ep.; br. red; per. red, wh at apex
- 35231 *Thib.*
 Br. rich pi.; cor. slate blue, lobes white
 Ep. elong br.; fr. greenish wh
- 35232 *Dichousandra*
 Ter; fr. wh.
- 35233 *Gent. rubioides*
 Ep. br. light green, pink tinged; cor blue brown 4s, wh. lvs.
- 35234 *Crematosperma*
 Ter. cor. wh.
- 35235 *Peperomia cordifolia*
 Ep Rep. out.
- 35236 *Rep.*
 out
- 35237 *Anthurium*
 Ep.; spathe gr; spadix or.
- 35238 *Anthurium*
 Ep; fr. red
- 35239 *Gesum*
 Ep; calyx 2; cor. pi
- 35240 *Thib. umbellata*
 Ep; br. infl. r fr. 1.
- 35241 *Gesum. elaphoglossoides*
 Ep; cor. bright y; infl. at base; lvs. light gr. ben.; calyx white
- 35242 *Gesum*
 Cor. cream, ter?
- 35243 *Trivolia*
 l.; pet. wh.
- 35244 *Gesum. sericea*
 Ep; buds cream

Comp. t; dense for.

4/24

fr. deep purple on stems & panicle

- 35245 *Liliaceae*!
Ter; per. 2, pale at base
- 35246 *Brown*
Ep; br. 2.
- 35247 *Lesum*
Ep. calyx deep red; cor. light 2.
- 35248 *Thiob.*
Ep; lvs dual
- 35249 *Miconia amplifolia*
S. ± 1m; fls. light gr.; st. wh.
- 35250 *Pilea*
- 35251 *Phil. scandens*
Ch; spadix wh.
- 35252 *Miconia pauciflora*
S 3-3.5m; fls. light pi
- 35253 *Asplenium*
Ter; sp. right. lost?
- 35254 *Aulacium*
Ep; spathe gr.; sp. pale green - pi.
- 35255 *Brown*
Ter. br. 2, per. wh.
- 35256 *Miconia*
T. 3-4m.
- 35257 *Cyrt. magniflora*
- 35258 *Elaph.*
Ep; sterile
- 35259 *Ref. on t.*
- 35260 *Cycas circinalis*
Caudex sub t. fr. up to 1.5m long
- 35261 *Phil.*
Ep.; fr. or.

Camp I, dense for.

4/24

- 35262 *Trichomanes repens*
Rep. on tt
- 35263 *Banana*
Ter.; no frt. clear out of - near 5
- 35264 *Mapellaria*
Ep.; per. deep fm.
- 35265 *Trichomanes*
In clumps on tt
- 35266 *Jacaranda* ??
T ± 2.5-3 m, leafy trunk apex; old fr (?) black
- 35267 *Trich.*
Rep. on tt
- 35268 Moss.
On *Anthurium*
- 35269 *Cid.*
Ep.; per. deep fm.
- 35270 *?* ~~*?*~~ *?*
S or t? lvs. deep fm. ben att; cor. pinkish blue.
- 35271 *Panicum. tiliacifolium*
HV; sterile
- 35272 *Rub.* un
Tree? Calyx gr.
- 35273 *Sphagnum Tormentum* ?
Forming mat
- 35274 *Scroph.*
Prost. herb, or shr
- 35275 *Spathiphyllum*
Ter.; spathe pure wh; obay + pinkish wh
- 35276 *Eubaria* un
Per. pure wh; pl. leafless
- 35277 *?* ~~*?*~~ *?*
Tree 4-5 m; fr. green
- 35278 *?* un
Tree, 3-4 m " "

Yeracün 700-900 ft.
Yajirgai
Camp I; dense forest

4/24

Uchibeto

open sandy ground along
stream

clearing of forest

clearing

open woods.

dense forest (H)

4/25

- 35279 *Cyathea*
Caul. \pm ~~60~~ ⁶⁰ cm. high; fr. \pm 150 cm. long. ^{incl} ~~fr.~~
- 35280 Gesner
Ter.; cor. y
- 35281 *Cypripedium*
- 35282 *Cypripedium*
- 35283 *Polypodium*
- 35284 *Cypripedium*
S 1-1.5 m; ~~fr.~~ rays wh
- 35285 *Pilea*
- 35286 Gesner.
Ep.; cor. cream, not spotted
- 35287 ~~Dryopteris~~ *Cyclodium trianae* var. *chocoma* A.R. Smith
- 35288 *Thib*
Ep;
- 35289 *Renealmia*
Fr. red
- 35290 *G. onoma* (all of 2 lvs taken)
Trunk 5 cm diam, 2.2 m. high; pet. \pm 30 cm.
- 35291 Moss
At lvs of 5290
- 35292 *Tococa*
Ep. sh. \pm 1.5 m; pet. pi.; st. palm; fr. black
- 35293 Gesner
Trunk 3 m high, 3 cm. diam
- 35294 *Orch.*
Ep; per. pi
- 35295 *Orch.*
Ep; per. wh

Camp I, dense fr.

925

open woods

~~thicket~~

dense fr.

- 35296 Moss
On roots of 5295
- 35297 Sapind. ?
Buds green
- 35298 Anthurium
Ep. un
- 35299 Planchaetis
Ep. ; fls. withered "
- 35300 Miconia
In soil, 2.5-3m, fr. black; pet. orange-red
- 35301 Peperomia
Rep. on tree
- 35302 Polypodium
on tree
- 35303 Epidendrum
Ep. ; per. sep. green - green
- 35304 Philodendron
Ep. ; infl. bracts & calyx red; lvs. lustrous above
- 35305 Dypsis
See Separate Fruit Collection
- 35306 Sapot. (fr. separate) "Carmichaels" un
Fr. ± 2.5 m; fr. & lvs. from ground fr. edible
- 35307 Pilea ophiodesmia
Ep. ; lvs. mottled above
- 35308 Gesneria
buds green, red-lined longitudinally
Ep. ; lvs. & bract light gr. base, red-blotched close to fr.
- 35309 Gesneria
Ter. herb. ; buds red
- 35310 Gesneria
Ep. ; bracts light gr
- 35311 Palm
infl. at base; fr. with
- 35312 Moss
Caulis ad subterranean; fr. 3.3 m. long incl. pet.
on tree

Camp I, dense forest.

4/25-

- 35313 *Coussarea* fr. deep gr.
J 4-5m. high; trunk slender, much branched above
- 35314 *Piper*
S, st. erect ± 1.2 m; to name for my guide, whose name I was offering
- 35315 *Arctium*
Ep. spathe gr.; spathe pubescent
- 35316 Rub. ??
- 35317 *Piper*
H. buds deep pi
st. erect ± 1.5 m; cf. 35314
- 35318 *Derris*
~~to~~
- 35319 *Trichomanes erecticaipa*
Ter.
- 35320 *Selag.*
On wet TT
- 35321 Moss
On dec. log.
- 35322 *Melast.*
J 6m; trunk, 25-30 cm diam; fls. red pi
- 35323 *Selag.*
On bank
- 35324 *Elaph.*
On T; sterile
- 35325 Moss
On branches
- 35326 Rub
J 4-5m; fr. flayh
- 35327 *Philodendron cordatum*
Ep; spathe light gr.; lvs dull above
- 35328 *Asplen.*
Ep. lvs with broad red margin below; calypso light gr.
- 35329 *Costus*
Per. wh.

Camp I; dense for.

4/25-



- 35330 *Xanthosoma*
Ter. spathe deep r; spadix wh
- 35331 *Picramnia*
T; spikes drooping; fls. yg
- 35332 Moss
On branches
- 35333 Hep.
Do
- 35334 *Cyrtosperma squamatum*
Under 2.2 m
- 35335 Rub.
S 2.5-3 m
- 35336 Piper
S \pm 3 m
- 35337 Gum? Rub.
~~S~~ Suf. rub, S \pm 30 cm
- 35338 *Peperomia*
Ep.; lvs rather fleshy; inf. green
- 35339 ~~On~~ Trich.
On branches
- 35340 Hep.
On T.T.
- 35341 Elaph.
On branches
- 35342 *Polygodium supracaulis*
On T.T.
- 35343 Arch. ??
Ter; per. pinkish blue
- 35344 *Anturium*
Ep. spathe light gr; infers dark purple.
- 35345 Moss
On lvs of 5344
- 35346 Lycop.
Ep. —

Camp I, dense for.

4/25-

35347 *Cyathia*
Caudex \pm 45 cm. high

35348 ?

T 3-4 m; Fr. red, with 5 deep lines at sutures

35349 *Anthurium*

Ep.

35350 *Anthurium*

Ep. Sp. & spad light gr

35351 *Anthurium*

Ep.

35352 ~~*Anthurium*~~ *Heliconia*

Tree, 4-5 m; buds gr.

35353 *Lycopodium*

35354 ~~*Cyathia*~~ *Siphonanthus*
wr; cor. wh

35355 *Cyathia*

Pet. light pr

35356 *Grass*

35357 *Lida rhombifolia*

H up to 1 m

35358 *Tonina*

35359 *Saurph*

cor wh

35360 *Chelonanthus*

35361 *Asochilus*

Ep. opposite to trunk; per. wh

35362 *Opoe*

Fr. 5 or 6 m; cor. y

35363 *Dryopteris*

Copied I; dense for.

4/25-

2d growth woods

edge of river, in open

Banks of R. San Juan, open scrubland
Concepcion Region, \pm 100 m.

open woods

shaded river bank

- 35364 *Dichroma*
Br. green, not variegated
- 35365 *Humbertia*
HV; cor. wh
- 35366 *Arae.*
Ter.; ~~sp. th.~~ sp. gr.; spad. or.
- 35367 *Raputia*
- 35368 *Voyria*
Saprophyte; cor. y
- 35369 *Mapania*
- 35370 *Leptochilus* cm
Ter.
- 35371 *Selag.*
High climbing, with long-drooping, "whiplike" roots
- 35372 *Adisia*
Tr 6-7 m; cor. wh
- 35373 *Wasscegewia*
T, 4-5 m.; br. bright r.
- 35374 *Aphelandra*
Coarse h, ~~± 60 cm~~ 60-80 cm; fls. reddish
- 35375 *Palms* in upper half of trunk; sterile
Trunk ± 2.2 m h, ± 2 cm diam. lvs. evenly spaced out,
- 35376 *Cephaelis*
Tr. S, 2 m high; br. bright red
- 35377 *Gynerium* basal part sep.
Culm subtler, fr. ± 1.6 m. long.
- 35378 *Phaseolus*
HV; fls. green & y
- 35379 *Selag.*
- 35380 *Dichroma*
In clumps

Camp I. open bank of R. San Juan

4/25

Quilagaya: clearing (sage) 60 m.

4/27

" 24 growth for, west side of
R. San Juan 60-90 m.

Clearing.

Sandy & gravelly edge of
river. * = characteristic plants
along S. Juan 60 m.

- 35381 Moss
Dependent from branches
- 35382 *Saurauia* *
- 35383 *Acacia*; *Scorpi*? *
- 35384 *Piper*
- 35385 ? "Pisidium" *
- Variable in height 3-8m; only along the river.
- 35386 *Acacia* *
- 35387 *Pilea*
- On muddy bank
- 35388 *Alga*
- On wet rocks
- 35389 *Grass* *
- 35390 *Cordia* upper half
- Pl. 1.5-2 m; per. wh. red-striped toward margin in
- 35391 *Phyllanthus*
- 35392 *Cassava* *
- S, elong. br up to 2 m l.
- 35393 *Dioscorea*
- 35394 *Inga*
- J 8-10 m; sterile
- 35395 *Prunella*
- 35396 *Polypodium*
- On C.
- 35397 *Castilla* "Cassia"
- Tall tree, giving milk

4/27

Andagoya: ~~clay~~ & gravelly shore of
R. San Juan across from camp 60m.

↑ dense for. along stream
60 m.

- 35398 *Polypodium*
Report
- 35399 *Sandhazia*
St. subglab., br. red, cor. y
- 35400 *Pilea*
Report in soil
- 35401 *Eucharis*
Per. wh
- 35402 *Pityrogramma*
- 35403 *Eleocharis*
- 35404 *Puriana*
- 35405 *Phyllanthus*
- 35406 *Cleome*
- 35407 *Dioscorea grandis*
Ter.; pet wh
- 35408 *Piper firma*
Ter. Herb, suff. stem 15-60 cm high
- 35409 *Solanum*
auth. green
Low S, br. up to 1.5 m, long; cor. greenish wh, pink-tinted
- 35410 *Guania*
IV Calyx light r, cor. light y
- 35411 *Crematosperma*
white along under side
Lvs bright gr. above, pale below. cor. y
- 35412 *Piper*
S 2-2.5 m.
- 35413 *Heliconia*
St \pm 1.5 m; infl. pendant; no complete lvs seen; br. r
- 35414 *Pilea degeneri*
Rep on ground & up base of tree

Audagoya: dense forest along stream,
across river from Audagoya
low.

4/27

Audagoya
Rio Condoto, Camp III, Mandinga 60m
Swamps

4/28

clearing

→ dense for. along
trail from Oredge III to
Anabrado Swamp (alt. 120-180m.)

- 35415 *Psychotria*
J 5-6 m; cor. light blue, lobes slightly dark blue
- 35416 *Psychotria*?
Jr 5-6 m; cor. wh.
- 35417 *Psychotria*
at summit, fls. among them
- 35418 *Psychotria*
Stem with straight, slender trunk ± 5 m high; lvs in rosette
- 35419 *Psychotria*
Stem 2.5-3.5 m; buds green
- 35420 *Psychotria*
H; fr. wh.
- 35421 *Psychotria*
Along branches of 35419 & on other br
- 35422 *Solanum pallidum*
S ± 1.5 m
- 35423 *Psychotria*
Leafy stem ± 2.2 m; infl. at base; fr. or
- 35424 *Psychotria*
On edge of leaf
- 35425 *Psychotria*
WV; fls. (buds) in clusters on old wood, greenish wh
- 35426 *Psychotria*
Tree; branch fallen; fr. wh. - tinged
- 35427 *Palma*
No infl. See ref. note
- 35428 *Didyma macrocarpa*
Jr.; cor. pet. ~~fr.~~ pinkish blue; anthers cream
- 35429 *Geacum*
Jr.
- 35430 *Carludovicia*
Ep; fr. or.
- 35431 *Caesalpin.* (cf. *Archeis*)
Tree 12-15 m; fruit seen but not obtainable

Rio Conchos; dense forest along trail
from bridge III to Q. Guaymas

Br. paniculata, fr. in just bud

35427. Stems ± 2 m high, about 12 to a plant, freshly
trunk 40-60 cm high, ± 20 cm diam; much used
for wood. Lvs 3 m long, inch. pet ± 1 m.
Sheath twice as long as specimen taken

- 35432 Fern
Ep.
- 35433 *Vouapa*
Jall Cr; etc.
- 35434 Rub.
Tr, 8-9 m; cor. y-g; lvs toward summit
- 35435 *Leucobryum*
Plant reddish; on tt.
- 35436 *Isoetes*
Br. subsc; lvs very sharp edged
- 35437 *Oryopteris*
Ter.
- 35438 *Oreopteris*
Climbing high on tt
- 35439 *Distichia acuta*
Ter; spathe green; spad. pi
- 35440 ?
Tr, 7-8 m high; fr. deep r; seeds or-r.
- 35441 *Leiphasium*
Sapro. cor. faint blue tube light gr, lobes sky-bl
- 35442 *Melast.*
Vine appressed to tt; ^{fruiting} sterile fr. red
- 35443 *Xanthosoma arcuatum* var. ²
Ep; spathe gr.
- 35444 Moss
on dec. log
- 35445 Fern
on bank
- 35446 *Biophytum*
lvs light gr.
- 35447 *Pilea*
Rep. Ter sub. lt
- 35448 Rub.
T 7-8 m; fr. wh

II. Condoto: dense forest along trail
from S ridge II to H. Guarapo
100-1200

Bank of small stream

35449 Piper

Er. 3 ± 1 m

35450 ?

Projecting from trunk of a tree.

35451 Dicranostyles

up to 1 m; cor. wh

35452 Piper

5 ± 2.5 m.

35453 Visinia

3-5 m; lvs light gr. ben.

35454 Dryopteris

Trunk to 1.8 m, incl. stipe

35455 Visinia

3-7 m; lvs rusty-br. ben.; fls. red-br.

35456 Vernonia longifolia

Soft, pappus wh

35457 Vernonia plumosa

Soft; fls. deep purple; pappus wh

35458 Mimosa lobata

H ± 1.5 m.; infl. light

35459 Gesner

Erect herb 1.5 m high, calyx 4-9; cor. bright red.

35460 Rub

In 4-5 m, along br.; bracts purp.; cor. wh.

35461 Crematosperma

In cor. y

35462 Spigelia

H 50-80 cm; cor. pi, tube wh

35463 Philodendron

Se. mt

35464 Eleocharis

On rocky soil, partly in water

35465 Maclurella

H V, cor light green at base, light y. at tip of white corolla, light y (corolla); tube wh

K Condoto: dense for. along trail from bridge III to th. Guapopo

4/20

El Cusco: # 1st mima, 11-175 m forest along road to th. th. thicket

4/27

forest

thicket

dense forest (only seen here)

rock

thicket

- 35466 *Papilion*
ser.
- 35467 *Geacur*.
Tree on bank
- 35468 *Brouet*.
Ep.; br. r; pet. (?) wh
- 35469 *Acanth*.
Br. wh
- 35470 *Coccoloba* —
Ep. h; cor. light blue; fr. deep blue
- 35471 *Aristolochia*
HV; cor. fls. green lower half, hood red, green-veined
- 35472 *Cayaponia*
HV; fr. y, 8 cm. long, 5 cm. diam
- 35473 *Cordia*
S 1-1.5 m high, with elong. br; cor. wh.
- 35474 *Anthrostenum*
Herb elong. br; pet. pink profuse, (faintly) ^{br. at base} _{int margin}
- 35475 *Croton*
Woody erect H 80-120 cm; pet. y
- 35476 *Passiflora vitifolia*
HV; sep. & pet. r.
- 35477 *Geacur*.
HV; br. gr., pi-tinged; fr. r.
- 35478 *Solanum*
S. ± 1.5 m., elong br; cor. wh. anthers y
- 35479 *Drama nicaantha*
Tree
- 35480 *Scroph.*
Suberect herb; cor. bright blue
- 35481 *Brouet*.
Ep.; buds blue pink, pinkish blue ^{an} _{dist}
- 35482 *Croton*
T. 6-8 m (occasional at camp I)

Patrinia 4/15/70 June for
along road to United

4/29

shaded bank

dune for

thickets

dune for

thickets

open mountain

- 35483 Selag.
On bank
- 35484 *Heteranthera reniformis*
Repent; per. wh
- 35485 Scroph.
Cor. wh
- 35486 *Sosyopium*
- 35487 Melast
± 1.6-1.8 m. high; pet. wh
- 35488 *Muhania micrantha*
HV; florets white
- 35489 Selag.
On ground
- 35490 *Polypodium*
On EC
- 35491 *Solanum pallidum*
Sh 2-2.5 m with subsc. br.; cor. wh.
- 35492 *Lasianthus*
Pl. high-climbing
- 35493 *Cestrum* ?
Subsc. shrub
- 35494 *Solanum*
subsc. shrub; cor. greenish wh
- 35495 *Asyphila*
' ' ' ; buds ' ' "
- 35496 *Pert.* ?
Coarse herb; ± 1.8 m; buds ' ' "
- 35497 Grass
(None of these Andagoya grasses are good pastures) ←
- 35498 Leg.
Tree 10-12 m; fols on ground; lvs from young shoots
- 35499 *Ocotea guianensis*
Ep.; per. bright y; ~~lvs from~~ red-spotted trunk

Portulaca ± 0.5 m
dune for
along road to Humboldt
ditch

4/29

± 0.5 m
Andagoya (cult.; specimen given me
by one of employees of Company)

4/30

second growth forest
thickets 70-100 m

second-growth for.

climber

second growth for.

35500 Trichomanes

On t t

35501 Anon.

See separate fr. collection

"Guáquina blanca"

Tree 15-20 m, trunk 80-100 cm. diam; bark put in water,
6-18 m high, trunk 20-25 cm diam?

35502 Palau

No stipe; trunk 40-60 ft.

"Chontaduna" Pl

infl. borne just below lowest leaf
leaf \pm 7 ft. long ~~in~~ pet. 2.5 ft. fruit eating taste,
leaves chestnut.

35503 Brownea multijuga

35504 Epidendrum

Ep.; all fr. seg. greenish wh

35505 Ficus

Among roots of 5504

35506 Orch.

Ep.; fr. young(?)

35507 Orch.

Ep.; fr. wh

35508 Orch.

Ep.; stipe ?

35509 Orch.

Ep.; old fr. reddish

35510 ? Fern:

Hang in a dense mass from t t

35511 Eleocharis

35512 Moss

On t t

35513 Palau

Tr. \pm 3 m h, 3 cm diam; pet. \pm 12 cm; fr.

35514 Myrt.

Shrub, \pm 2.5 m; buds (?) reddish

35515 Comp.

V. scandent up t t

35516 Codonanthus

Scandent on t t, (buds)

Andagoya: second growth forest 70-150 m

4/30

from Andagoya and is used for soap-making 125 m.

148

(See revised notes) clearing

very common on plantations along S. Juan

Rio 7.20, Geo. Rhodes coll. 170 m

4/30

dense for.

Buenaventura Bay: mangrove swamp

5/4/5

Tidal thickets along mangrove swamp

- 35517 *Bonania*
suberect; cor. wh.
- 35518 *Ocme. frutescens*
Herb, suff. below, br. erect; pet. pinkish, purple
- 35519 *Oxalis*
Pet. w
- 35520 *Passifl. coriacea*
H.V.; suff. light gr.; fr. purple
- 35521 *Melochia*
H. \pm 50 cm; pet. wh.
- 35522 *Coleumma*
H: tube light, out. green, lobes light red, deeper red-tinged
- 35523 *Chaptalia*
Suff H, up to 1 m; pet. wh.
- 35524 *Passifl.*
- 35525 *Desmodium*
St. upright
- 35526 *Purpurea*
H \pm 1.5 m; much branched above; cor. wh.
- 35527 *Passifl. subpectata*
H.V. stem
- 35528 *Passifl. Capoulana*
H.V.; all flower parts greenish wh.
- 35529 *Pouzolzia obliqua*
St or 2m \pm 3 m
- 35530 *Moss*
On TC
- 35531 *Heliconia*
Stem \pm 1.7 m; suff. erect; br. or, just to suff
- 35532 *Ocme*
S \pm 2.5 m; pet. purple (perhaps unopened)
- 35533 *Ocme. albiflora*
subp. h., pet. wh
with subprostrate branches

B/ventura Bay, thickets along
mangrove swamp

5/4

Cisneros: open bank

5/5-

thickets

open bank

thickets

~~open~~ open woods

thickets

18. *Staphylococcus aureus*

11:00 - 1:00

1. *Chlorophyll a* (Chl *a*)

... 2250 ...

Apr. 6. 2000

10

630
577

53

- 35534 *Fittouia*
Ref. H., lvs conspicuously white venial above
- 35535 *Geum*
Ter; cor. Orange
- 35536 *Carludovica palmata*
Caulerous; fl. ~~± 1.5~~ 1.5-1.8 m.; infl. green
- 35537 *Adiantum macrophyllum*
- 35538 *Tillandsia*
Ep.
- 35539 *Solmsia*
H V; infl. orange
- 35540 *Adiantum melanoph.*
- 35541 *Cayaponia*
H V
- 35542 *Lasiacis*
High climbing
- 35543 *Selag.* *Selaginella bombycina* Spring
On bank
- 35544 *Cissampelos grandif.*
H V
- 35545 *Calathea glauca*
St. ± 60 cm. fls ~~cor.~~ or. wh; per. granule, y dist, pale prox
- 35546 *Geophila*
Ref. H; cor. wh; fl. r
- 35547 *Hep.*
Hanging from branches
- 35548 *Renealmia* (fr. rep.)
Leafy stem 2-2.1 m; infl. peduncle ± 30 cm; fr. ^{legit} r.
- 35549 *Dryopteris*
^{mont.}
Caudex subter.
- 35550 *Peperomia elongata*
Ep.

El Valle: Cusieros, open woods
400-500 m.

5/5-

thicket

open woods

- 35551 *Polypodium purpuraceum*
E. T.
- 35552 *Cyrtopogon semicordatus*
Ler.
- 35553 *Melotheca*
H V
- 35554 *Costus*
H \pm 1.8 m; br. r; per. wh.
- 35555 *Fevillea*
H V; fr. black
- 35556 *Vernonia*
~~E. T.~~ H \pm 4 m; per. wh.
- 35557 *Aulium*
Ep. ~~Spadix~~ bright pi, fr. (?) wh, pub. at base
- 35558 *Pasp. halimii*
H V; sterile
- 35559 *Cryptanthus*
Par.
- 35560 *Oxypteryx* *Thelypteris gemmulifera* (Hieron.) det. B. G. Lellinger 1983
- 35561 *Eup.*
S; \pm 2 m
- 35562 *Madriagalis gracilis*
Lax ^{stem} \pm 50 long; per. wh.
- 35563 *Cayaponia*
H V
- 35564 *Piper*
S \pm 2.2 m.
- 35565 *Chamaefistula*
Sm. t., 3-3.5 m; pet. light y
- 35566 *Pouzolzia occ.*
Sm t. 3-4 m
- 35567 *Pasp. filif.*
H V; sp. pet. scarlet

Usneiros #400-500 m. open woods

375 -

thickets

open woods

- 35568 ~~Croton~~ *Dimerocostus* per. wh, or. pink ^{cent}
Arboreal; trunk 4 m high, 7 cm. diam. ~~fl. white~~
- 35569 *Ficus*
Tr. 5-6 m.
- 35570 *Polyph.*
Ep
- 35571 *Piper*
S \pm 2 m
- 35572 *Epidendrum*
Ep; ~~fr. green~~ per. green.
- 35573 *Colou*
Tr 6-7 m
- 35574 *Acanth.*
H \pm 1 m; lower lvs. pi
- 35575 *Turnera ulmifolia*
H \pm 40 cm; pet. y
- 35576 *Canna*
H, \pm 1.2 m; per. r.
- 35577 *Begonia*
Ter.; pet. wh, pi - tinged
- 35578 *Cheilanthes*
- 35579 ~~Brachyotum~~ *Centrosema pubescens*
HV; ~~fl. white~~ standard ~~white~~ bluish pi
- 35580 *Mor.*
Tree 5-6 m; infl. y-g
- 35581 *Columna*
^{tbl}
Cor. r., lobes green, black-spotted in
- 35582 *Alternanthera*
H ~~6-10~~ 20-50 cm; infl. greenish wh
- 35583 *Dracula sericea*
HV; pet. pinkish blue.
- 35584 *Lophodermium*
V

Cisneros 400-500 m; open woods

5/6-

300 m thickets along R. Dagua

shale bank

thickets along R. Dagua

shale bank

thickets " " "

- 35585 *Pilea*
Succ. limb
- 35586 *Aphelandra*
S ± 1.5 m; cor. bright r.
- 35587 Bromel.
Ep.
- 35588 Selag.
Ter.
- 35589 *Acanth.*
Herb. ± 1.8 m; cor. blue
- 35590 *Aphelandra*
S ± 2 m; cor. bright r.
- 35591 *Peperomia*
Report on branches
- 35592 *Oncidium* ~~juniper~~
Epi; cor. bright y
- 35593 *Pavonia*
H ± 80 cm; pet. pi.
- 35594 *Oxalis*
Pet y
- 35595 *Aulthum*
Ter.; infl. at base of pet.; lvs up to 1 m lvs
- 35596 *Panicum* *Trichodes*
- 35597 Grass
- 35598 *Sida* *limfob*
Pet wh
- 35599 *Marchantia*
On wet bank in spray of falls
- 35600 *Gesum*
Ter; cor. wh with pinkish-pink in & at center of white lobes
- 35601 Selag. *Selaginella novae-hollandiae* (Sw) Spring

Asineros, 300 m; thickets along R. Dagua

5/0-

open shale bank

—
wet bank in spray of water

- 35602 Grass
 35603 Moss
 35604 *Piper cordatum*
~~to~~ S. branched at base, br. up to 2.5 m.
 35605 *Pilea manghylla*
 35606 *Hydrocotyle Euph.*
 Ref. to H; fls. blm
 35607 *Gesner*
 Cor. tube wh, lobes blm
 35608 *Peperomia*
 sp.
 35609 ~~the~~ *Selagin*
 35610 *Pilea pubescens*
 35611 *Brachyotum*
 H \pm 1.8 m.; cor. 7; fr. red
 35612 *Euphorbia*
 Br. red toward top
 35613 *Vernonia*
 S \pm 2 m; fls. pinkish blm
 35614 *Tectaria*
 35615 *Scroph.*
 Prov. H, cor. wh
 35616 *Scroph*
 Er. herb; cor. blm.
 35617 *Portulaca*
 res. deep pi.
 35618 *Solanum*
 H up to 50 cm; cor. wh

Asuam 300 m; wet bank in spray
 of falls.

178-

open woods
 wet bank in spray of falls

thickets

wet bank - - -

open bank

shrubland -

thickets

wet bank in spray of falls

gravelly ^{river} ~~stream~~ bed

- 35636 *Carludovica* (3551a)
 35637 *Piper* (3551b)
 35638 *Piper* (3551c)
 35639 *Acauth.* (3551d)
 35640 *Uros* (35710a)
 On die. branches
 35641 *Guinea.* (35710b)
 35642 *Sol.* (35710c)
 35643 " (35710d)
 35644 *Uros* (35710e)
 On branches
 35645 *Trichomanes* (35710f)
 35646 *Och.* (35710g)
 Efr.
 35647 *Guinea.* (35710h)
 Efr.
 35648 *Perberis* (35710i)
 Small tree
 35649 *Grass* (35710j)
 35650 *Cyperaceae* (35710k)
 35651 *Marant.* (35710l)
 35652 *Hyptis* (35710m)

- Bahia Solano; dense for. along th. Jacinto* 2/22
 " " "
 " " "
 " " "
Guacoras: dense for. Monte Lirio 2/27
 " *El Silencio* 2/28
 " " "
 " " "
 " " "
 " " "
 " " "
San Antonio 3/2
 " "
Par. de Guasca 3/12
 " "
± 20 km S.E. Velaviccencio; palm jungle 3/17
 " " "
 " " *llanos*

- 35653 Leg. (134720)
HV; pet. blue
- 35654 Clibadium (134721)
- 35655 Mimosa. (134722)
Tree 5-6m high
- 35656 Melast. (134723)
- 35657 Cissampelos (134724)
S
- 35658 Arch. (134725)
Ep. Ter.
- 35659 Opalis (134726)
- 35660 Comp. (134727)
- 35661 Hib. (134728)
S, along branches; bracts pi; cor. white
- 35662 Mel. (134729)
Ep.
- 35663 Galetthia (134730)
low S
- 35664 Pilea
- 35665 Rust on 34698 (134731)
- 35666 Acauth. (134732)
- 35667 Eup. (134733)
- 35668 Mel. (134734)
Ep.
- 35669 Elaeagnus (134735)
Ep.

Rio Ocoa; rocky stream bed

3/18

Rio Guatigüiza; stream bed

"

" edge of river

" woods along river

Guatemala Highway, Km 45; wooded valley ^{2430m}

3/27

" " open land, 2200m.

" " 2750m

" " "

" " divide

" " ±2900m

3/28

" " open bank, ±2900m

"

Along R. Cauca, n.e. of Cali; 6000m

3/31

La Elva, 825m; densely forested valley

4/2

Rio Engaña

4/4

B(ventura Bay; mangrove swamp

4/13

- 35670 Melast. (35670-1)
Tree, 3-4 m; fr. purple
- 35671 Gesner. (35671-1)
- 35672 Antheurium (35672-1)
- 35673 Palm (35673-1)
- 35674 Orch. (35674-1)
Tree.
- 35675 Myrsine (35675-1)
Tree.
- 35676 Hef. (35676-1)
On tree.
- 35677 Moss (35677-1)
On branch
- 35678 Piper (35678-1)
Tree.
- 35679 Hef. (35679-1)
On branches
- 35680 Hib. (35680-1)
- 35681 " (35681-1)
- 35682 Gesner (35682-1)
- 35683 Bromel. (35683-1)
Ep.
- 35684 Bromel. (35684-1)
- 35685 Arac. (35685-1)
- 35686 Antiochia (35686-1)

Andagoya, 75-100 m; 2nd growth fr.

4/20

Lower R. Condoto

4/20

"

"

Quebrada Guarapo

4/22

"

"

Corcovado Region

4/25-

Across R. San Juan

4/27

Guanduzo - Guarapo

4/28

"

"

"

"

"

Estimada

- 35687 Fern (33112)
- 35688 *Carex*
Fruit from Hotel alpin Real
- 35689 *Hymenoph.* (34261)
- 35690 " (33562)
- 35691 *Calathea* (34724)
- 35692 *Passiflora* (34711)
- 35693 *Diolena spicata* Trin. (35243a)
- 35694 Moss (34673a)
- 35695 *Heteropogon* 35005b
- 35696 Verb. 35539L
- 35697
- 35698
- 35699
- 35700
- 35701
- 35702
- 35703

Casimiro; Thibet

Cali

20 Km S. Villavieja

Pratia dolosa, Arab. *fecunda*

Ogiva Valsey

H. longipes

Cerebada

Humilis

R. heugina

5/5

4/9

4/2-5/1

4/3/19

4/24/1

3/28

4/17

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